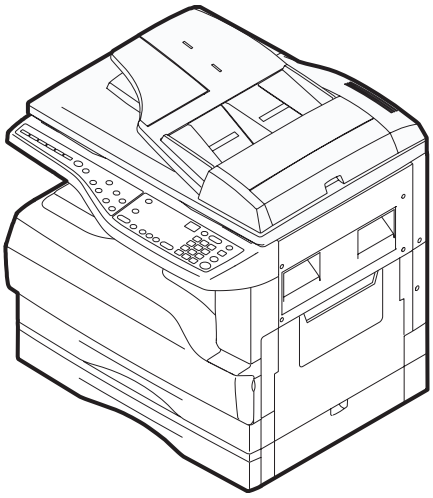
SHARP CIRCUIT DIAGRAM

CODE : 00ZARM205/C1/



デジタル複合機
DIGITAL COPIER

AR-200M [Japan only]
AR-160M [Japan only]
AR-M205 [Except Japan]
AR-M160 [Except Japan]
MODEL AR-5220 [Except Japan]

CONTENTS

1. MAIN PWB 1
   CPU 1
   ASIC 2
   Memory 3
   Driver (1) 4
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   Noise filter/Pull-up 7
   Connector (1) 8
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安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。
⚠ 印の部品は、安全上重要な部品です。交換をする時は、安全および性能維持のため必ず指定の部品をご使用下さい。

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

本書はサービス活動用に作成した資料です。
一部内容が製品の改良・改善等により予告なしに変わることがあります。

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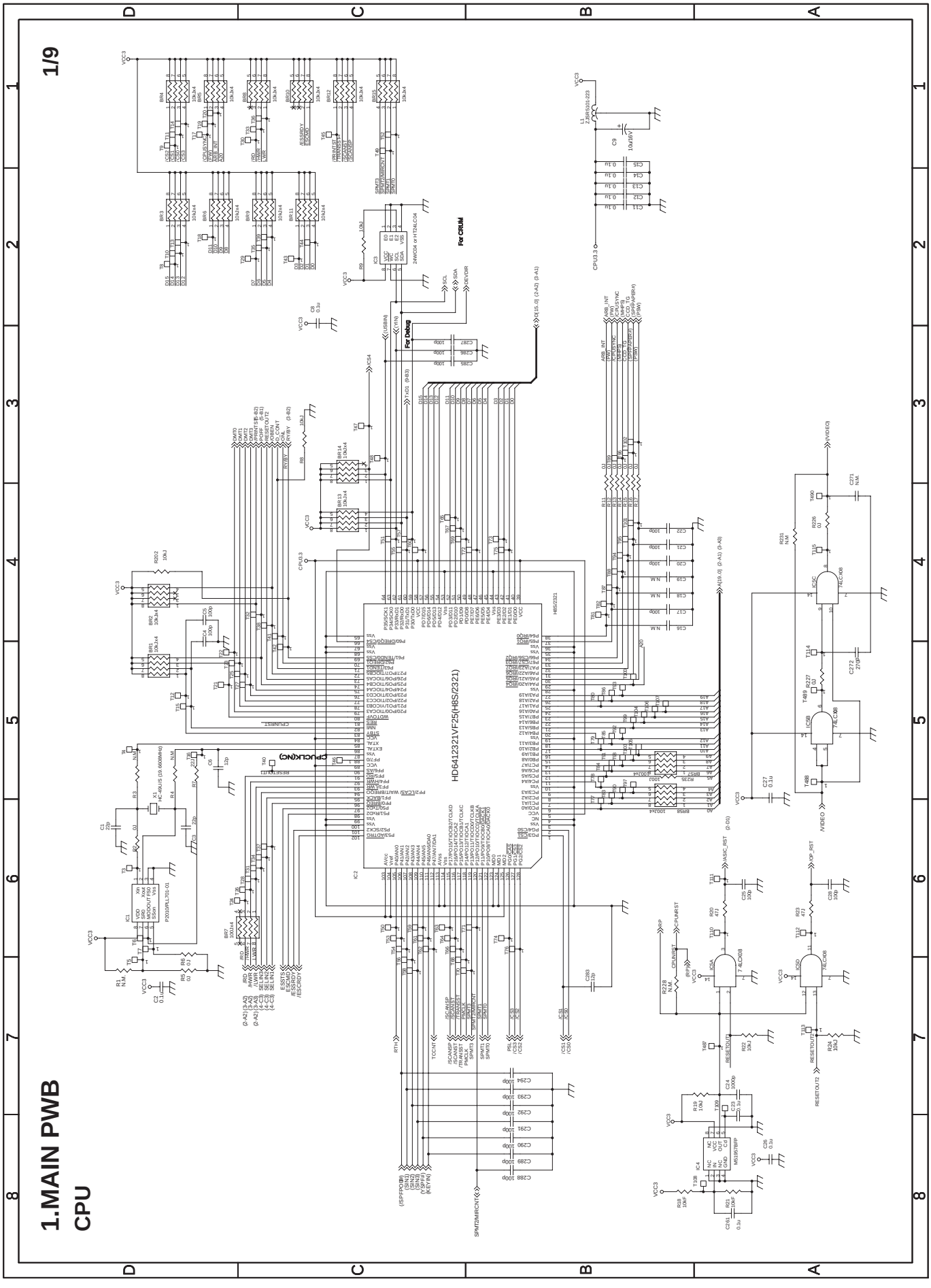
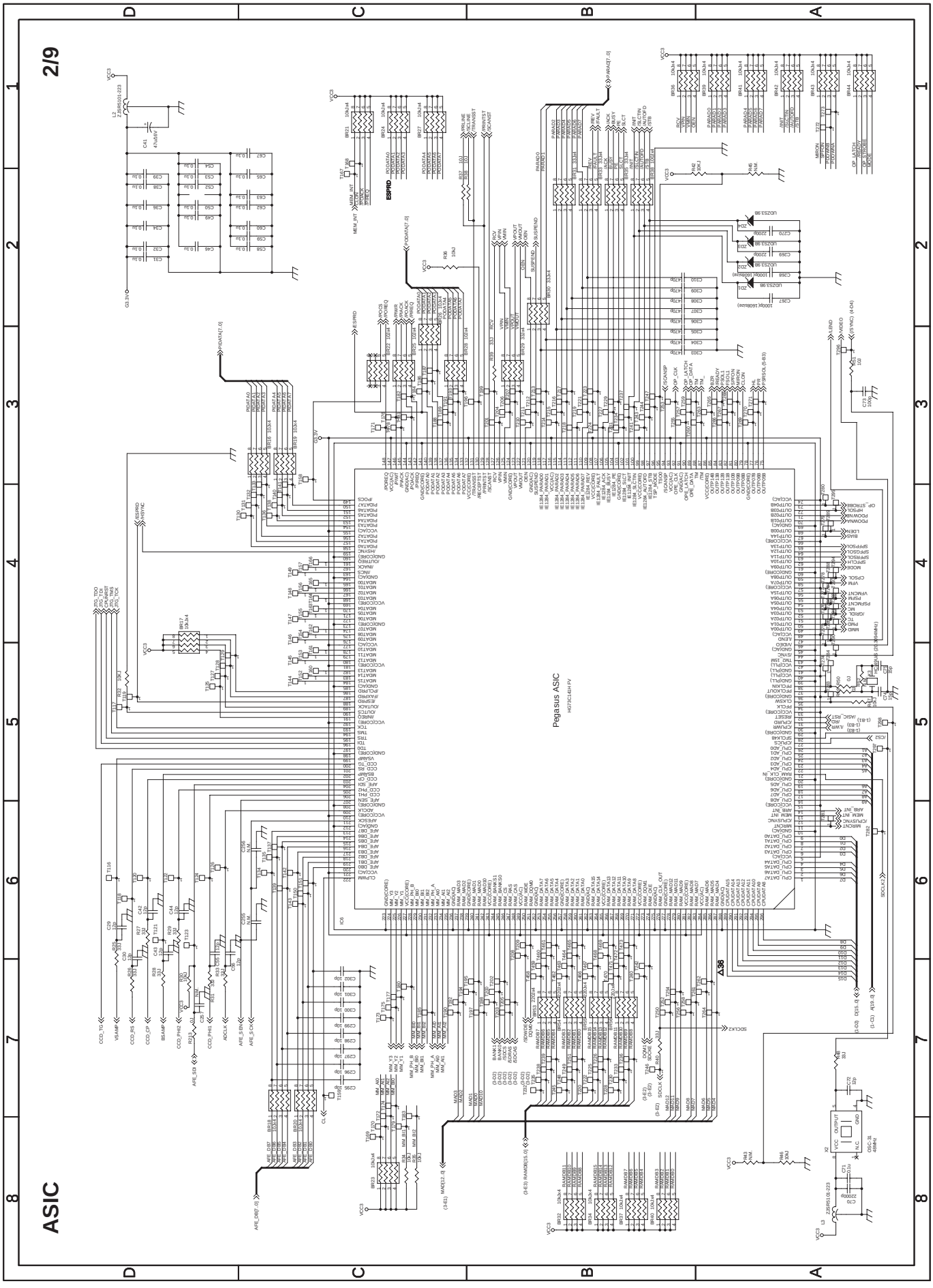
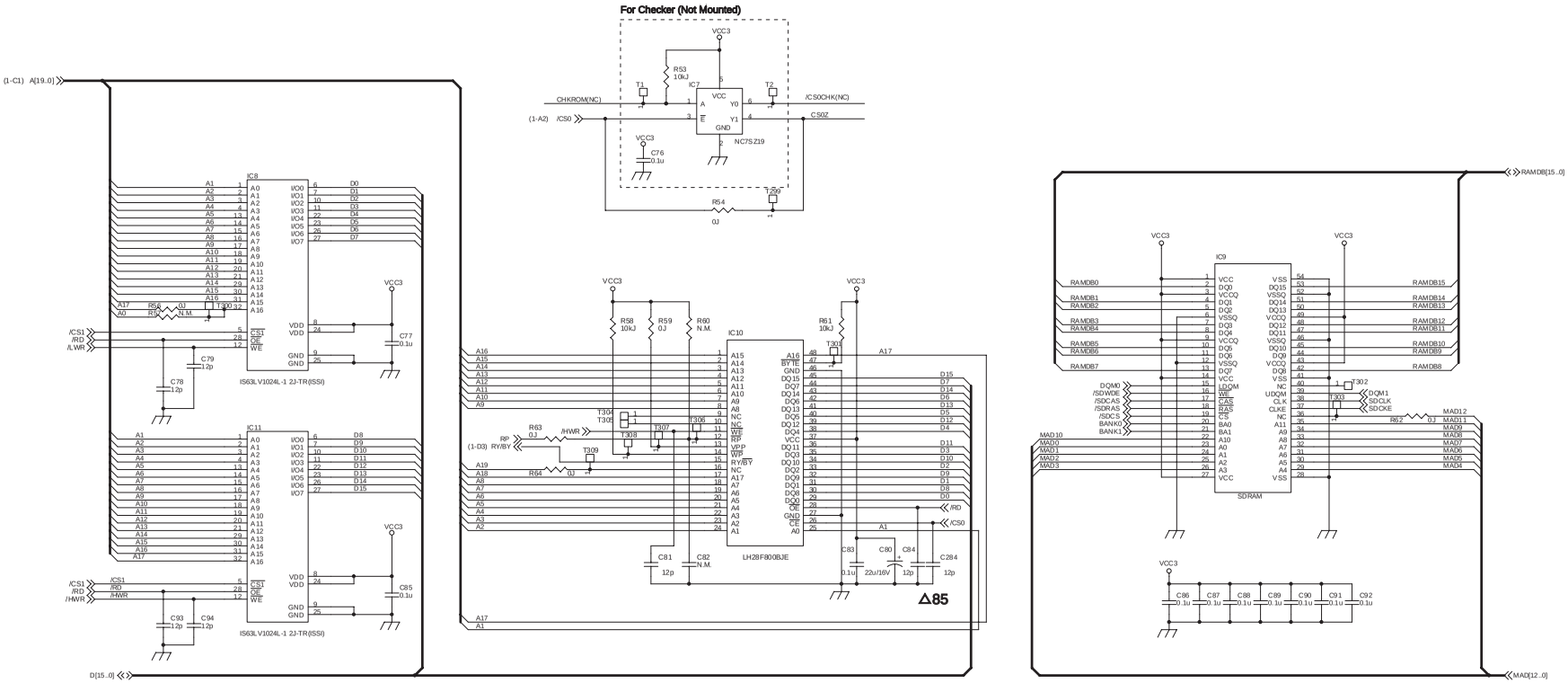

1.MAIN PWB
CPU
1/9
HD6412321VF25(H8S/2321)
For Debug
For CRUM
CPUCLK(40)
/RESETOUT
/RESETOUT2
/CPURST
/ASIC_RST
/DP_RST
/VIDEO
CPU3.3
VCC3
SPIMT2/MRCNT

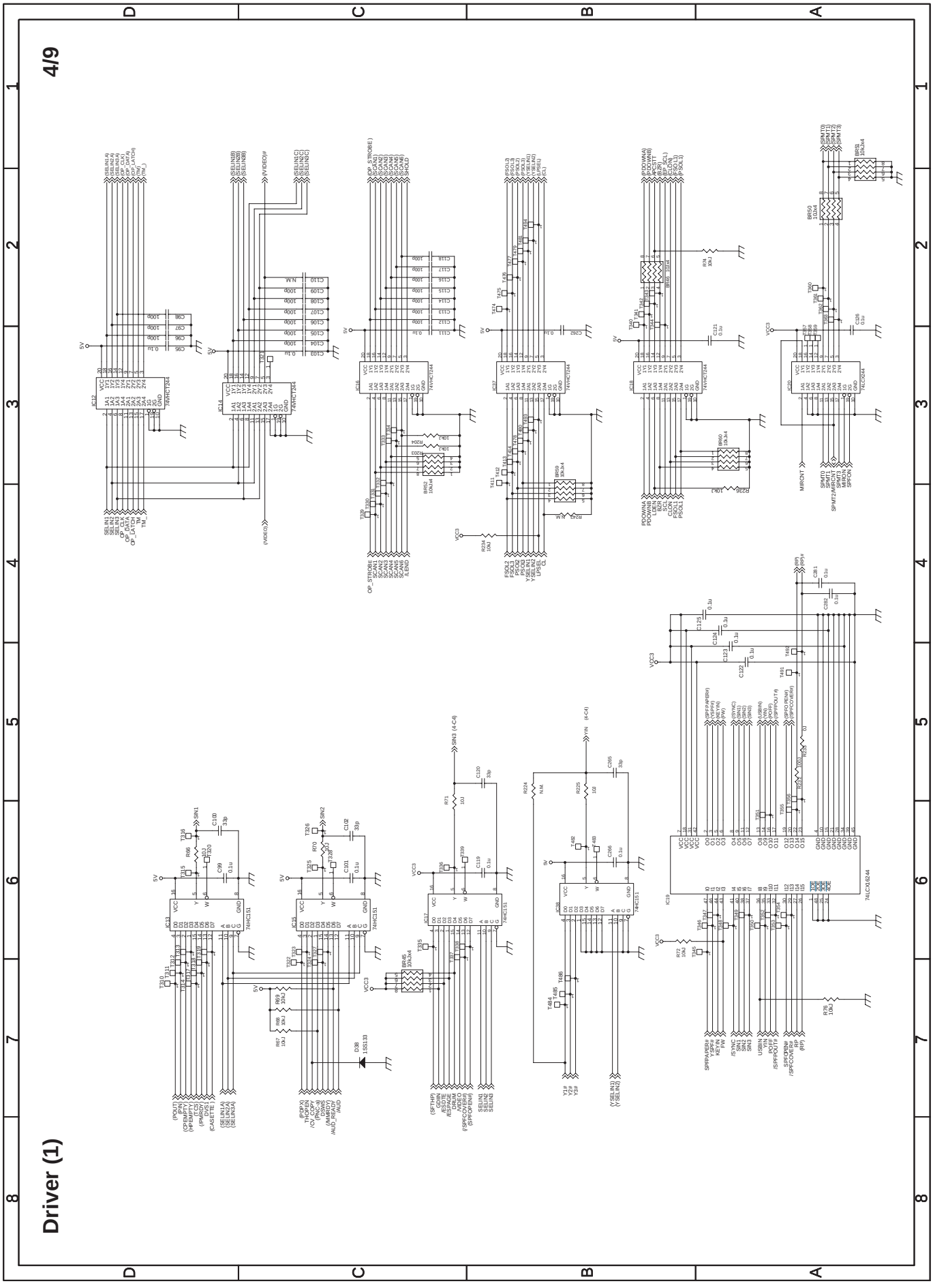

2/9
ASIC
Pegasus ASIC
HG73C141H-FV

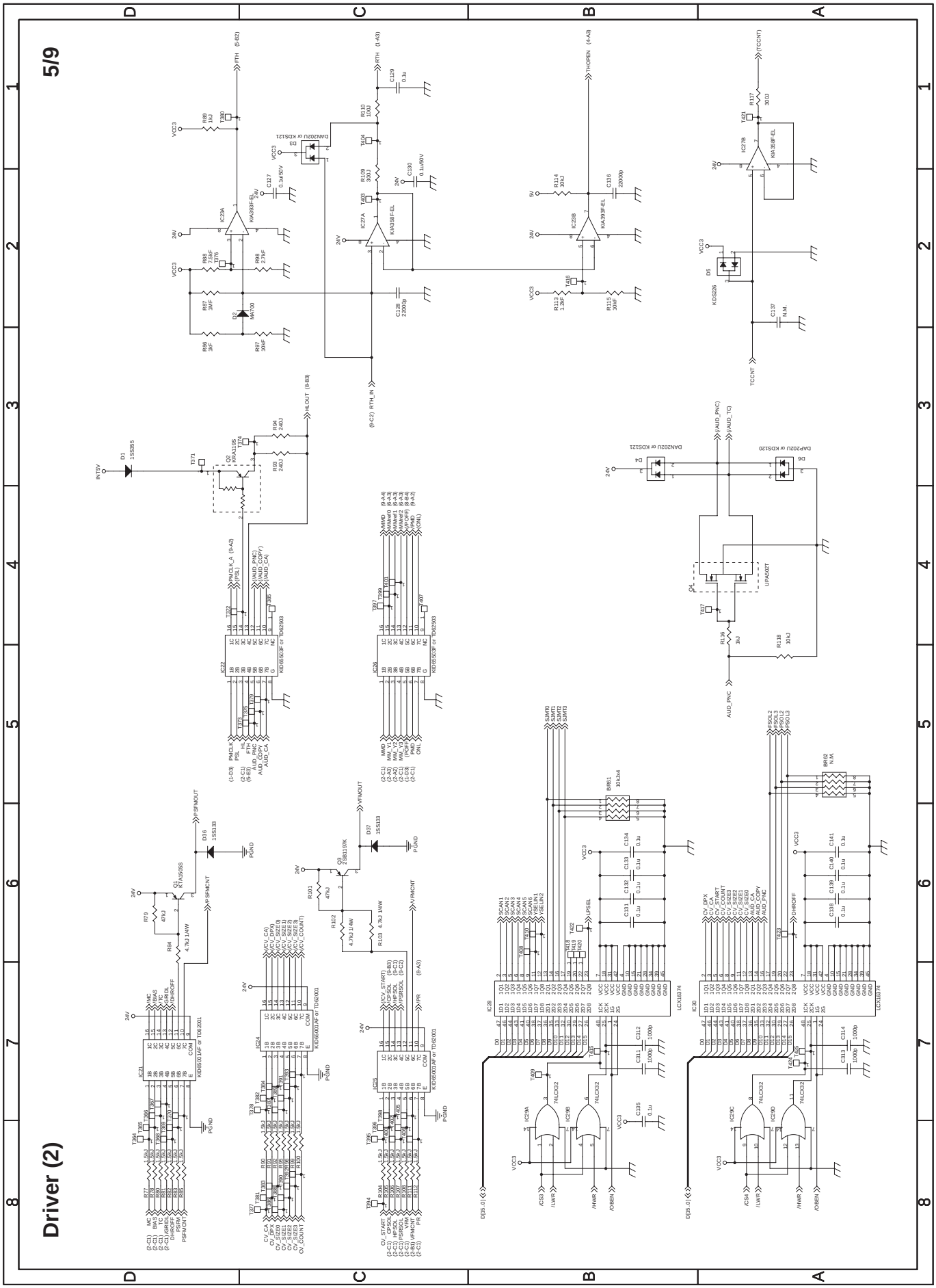
Memory

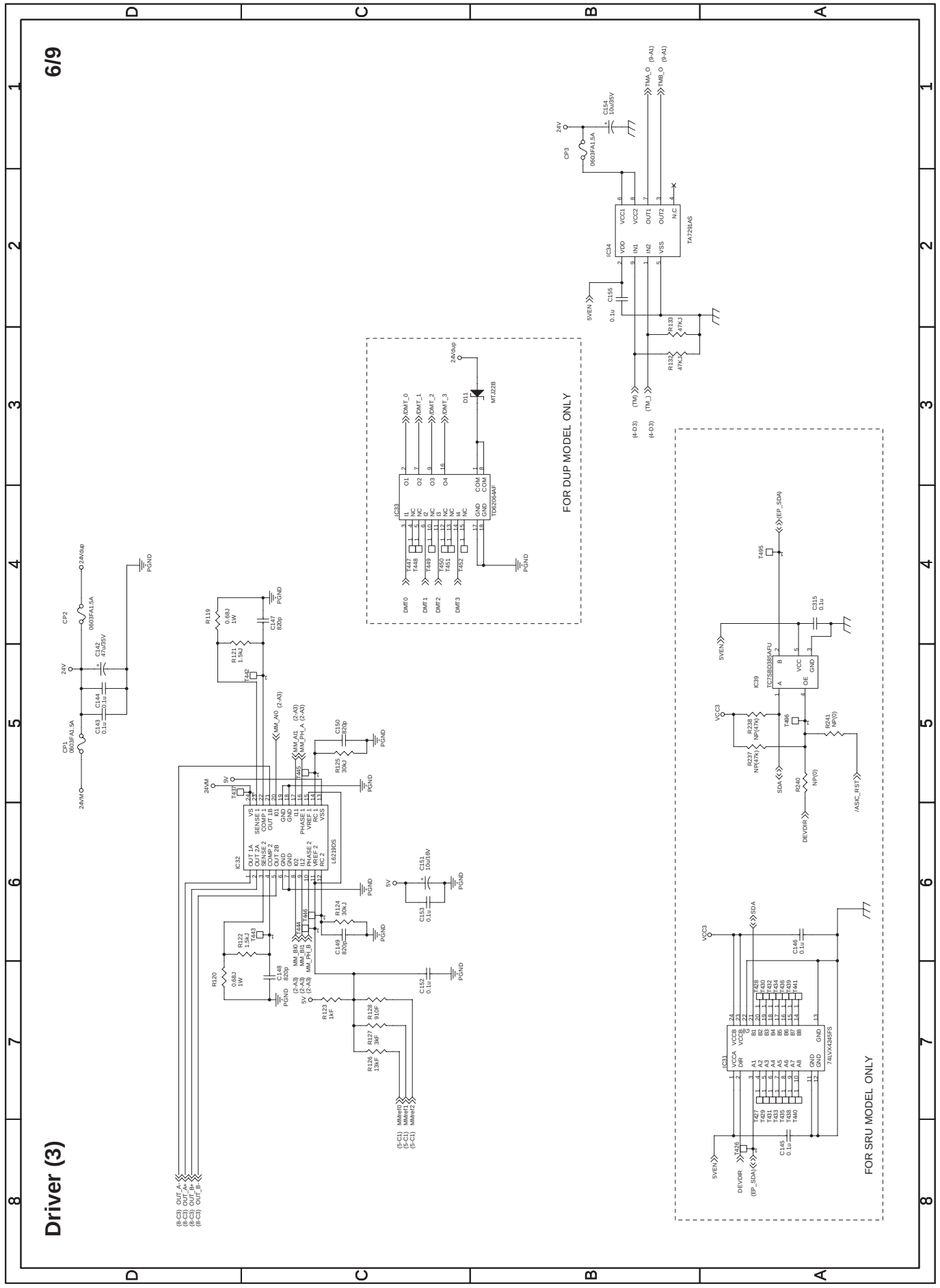


SDRAM △2

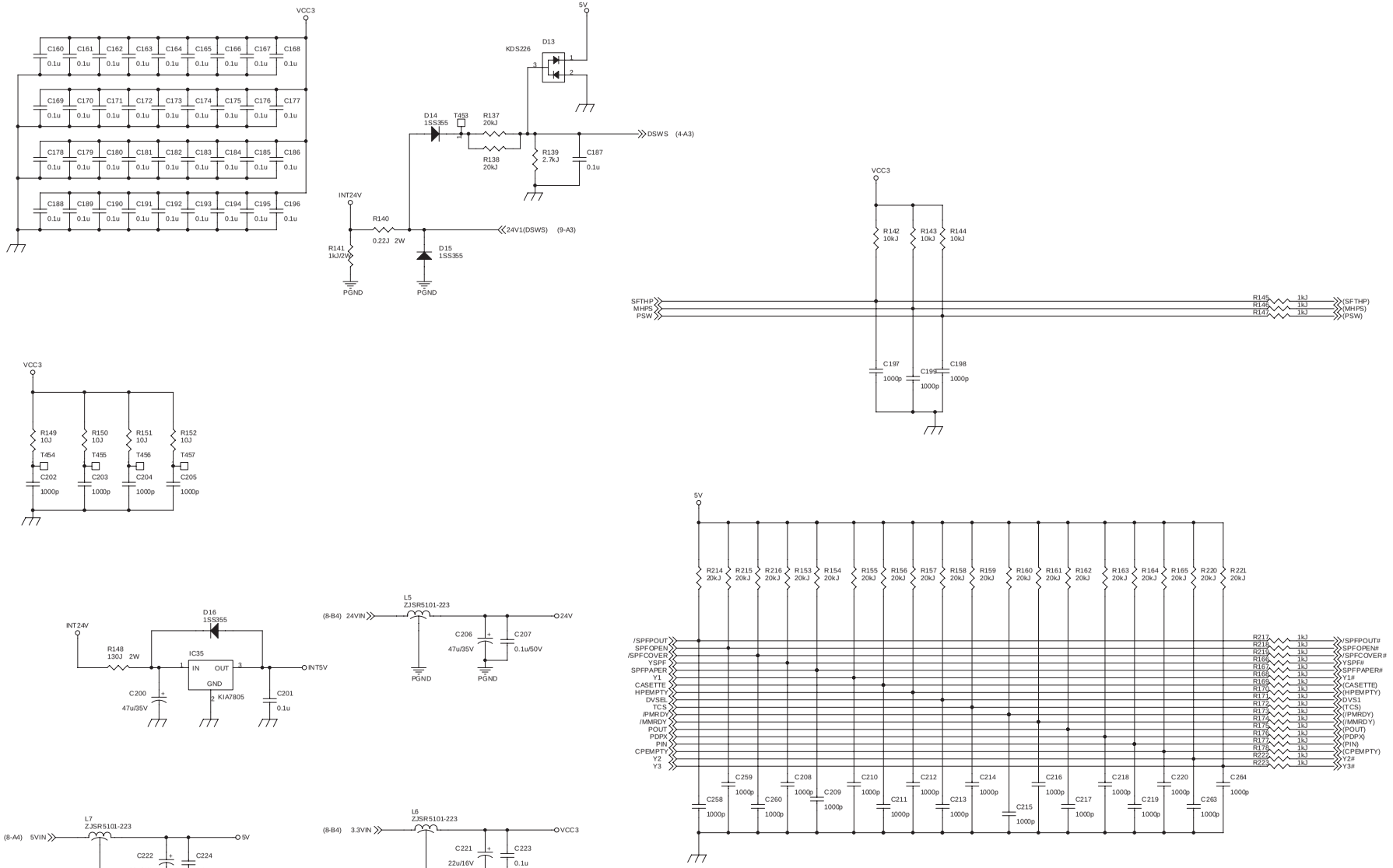
Model		Vendor/Type	R62 (*7)
	128Mb(2Mx16bitx4bank)	K4S281632D-1H(Samsung)	**OPEN**
	256Mb(4Mx16bitx4bank)	K4S561632D-TC75(Samsung)	**0J**

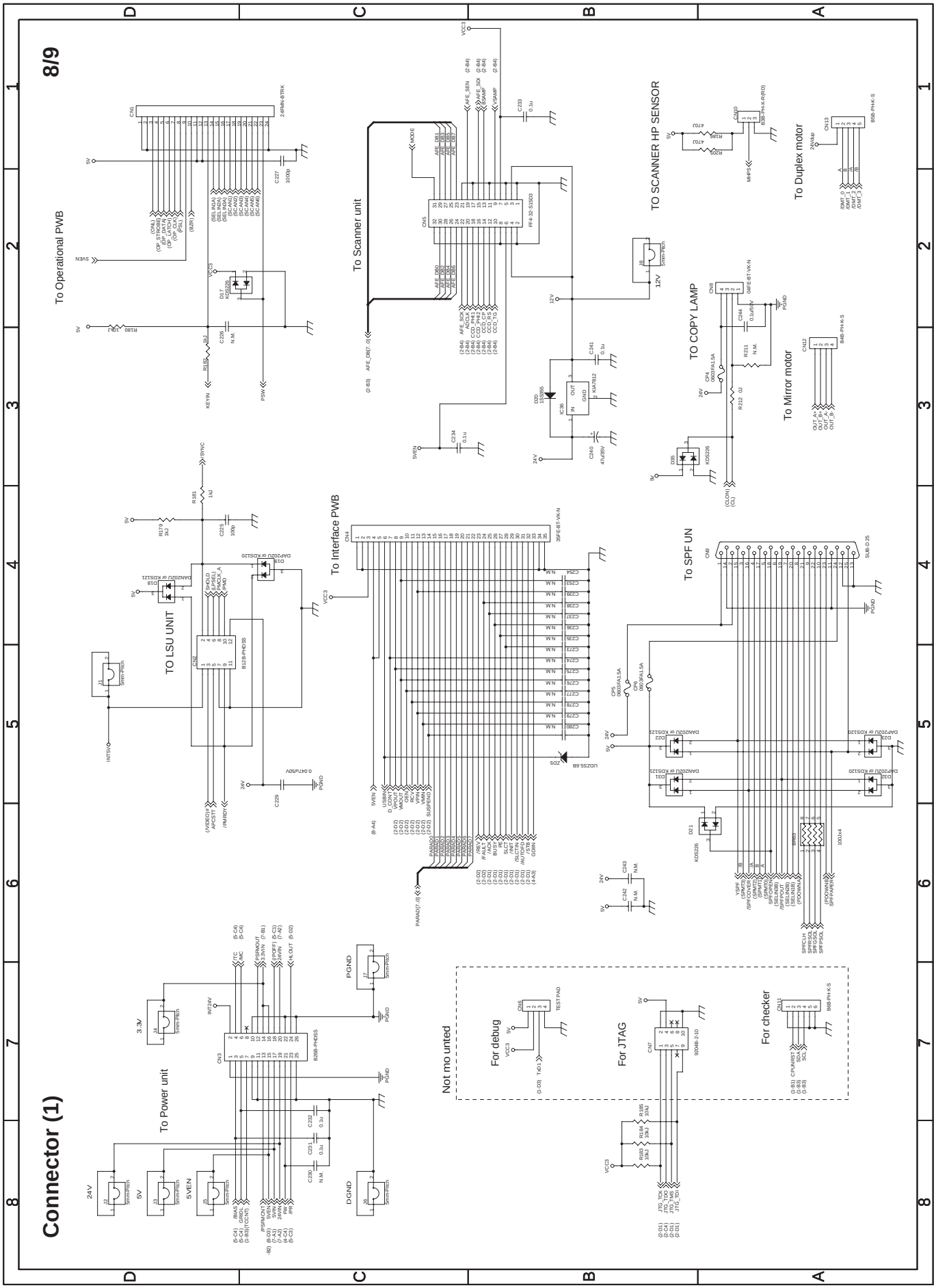

4/9
Driver (1)

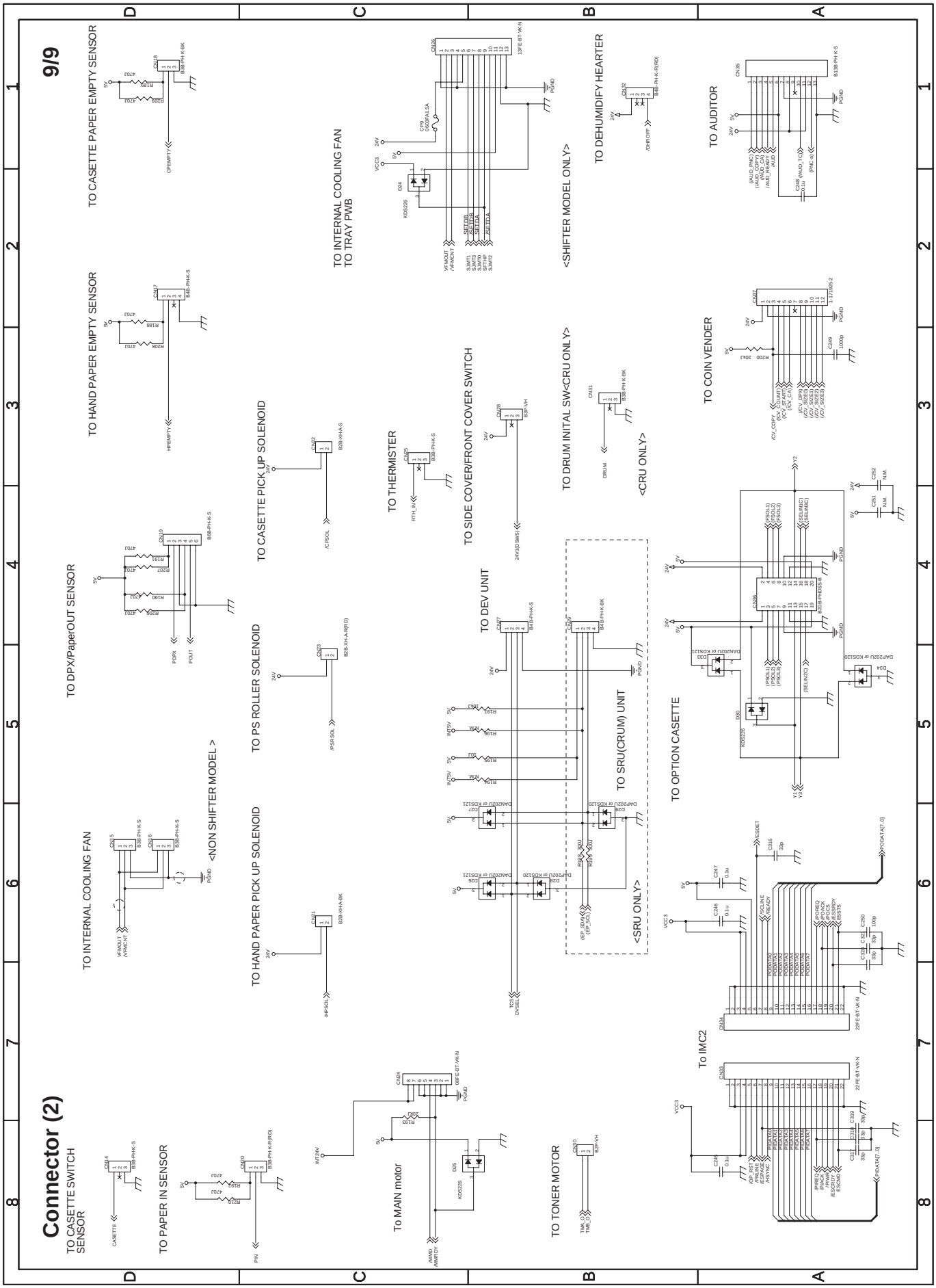

5/9
Driver (2)


6/9
Driver (3)
FOR DUP MODEL ONLY
FOR SRU MODEL ONLY
IC32
L6219DS
IC33
TD62064AF
IC34
TA7291AS
IC39
TC7SB3208AFU
IC31
74LVX4245FS
CP1
CP2
CP3
D11
MTZ22B
24V
24V/dup
24V/M
5V
5VEN
PGND
DEVDIR
SDA
VCC3
/ASIC_RST
(EP_SDA)
(TM)
(TM_)
(9-A1)
(4-D3)
(8-C3) OUT_A-
(8-C3) OUT_A+
(8-C3) OUT_B+
(8-C3) OUT_B-
(5-C1) MMref0
(5-C1) MMref1
(5-C1) MMref2

Noise filter/Pull-up



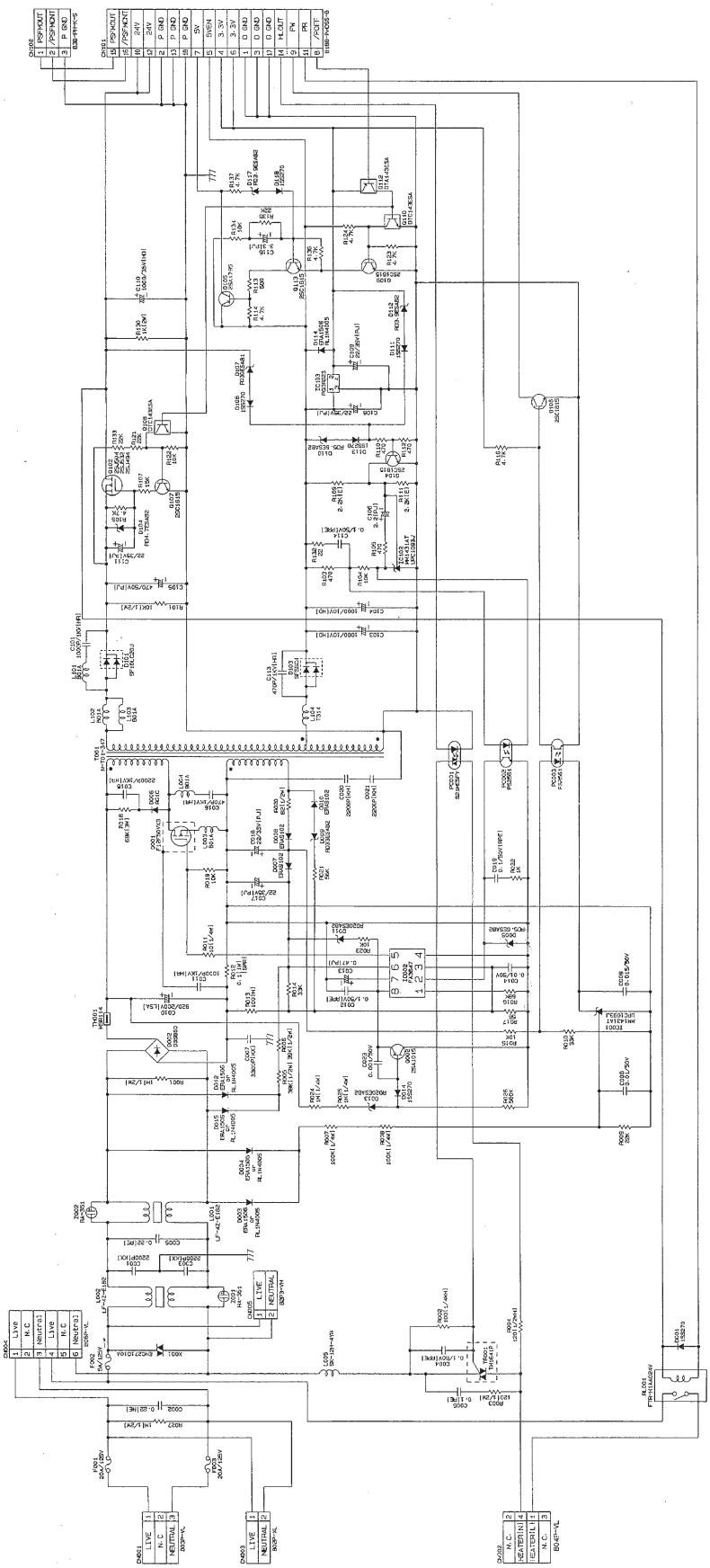

8/9
Connector (1)
To Operational PWB
To Scanner unit
TO SCANNER HP SENSOR
To Duplex motor
TO COPY LAMP
To Mirror motor
To Interface PWB
TO LSU UNIT
To SPF UN
To Power unit
Not mo unted
For debug
For JTAG
For checker

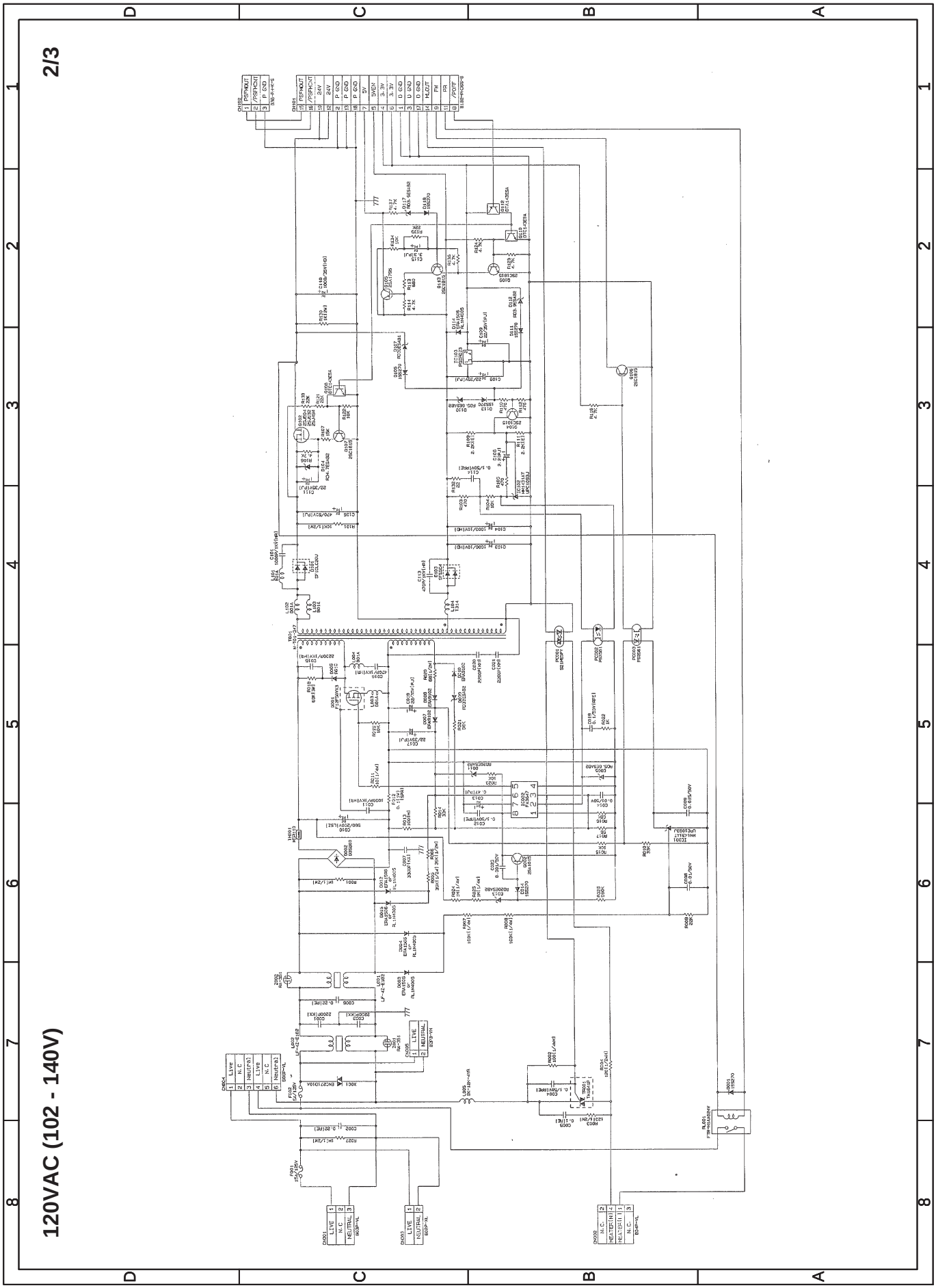

9/9
Connector (2)
TO CASETTE SWITCH SENSOR
TO PAPER IN SENSOR
TO MAIN motor
TO TONER MOTOR
TO INTERNAL COOLING FAN
<NON SHIFTER MODEL >
TO DPX/PaperOUT SENSOR
TO HAND PAPER EMPTY SENSOR
TO CASETTE PAPER EMPTY SENSOR
TO HAND PAPER PICK UP SOLENOID
TO PS ROLLER SOLENOID
TO CASETTE PICK UP SOLENOID
TO INTERNAL COOLING FAN
TO TRAY PWB
TO THERMISTER
TO SIDE COVER/FRONT COVER SWITCH
TO DEV UNIT
TO SRU(CRUM) UNIT
<SRU ONLY>
TO DRUM INITAL SW<CRU ONLY>
<CRU ONLY>
TO DEHUMIDIFY HEARTER
<SHIFTER MODEL ONLY>
TO COIN VENDER
TO AUDITOR
TO OPTION CASETTE
To IMC2

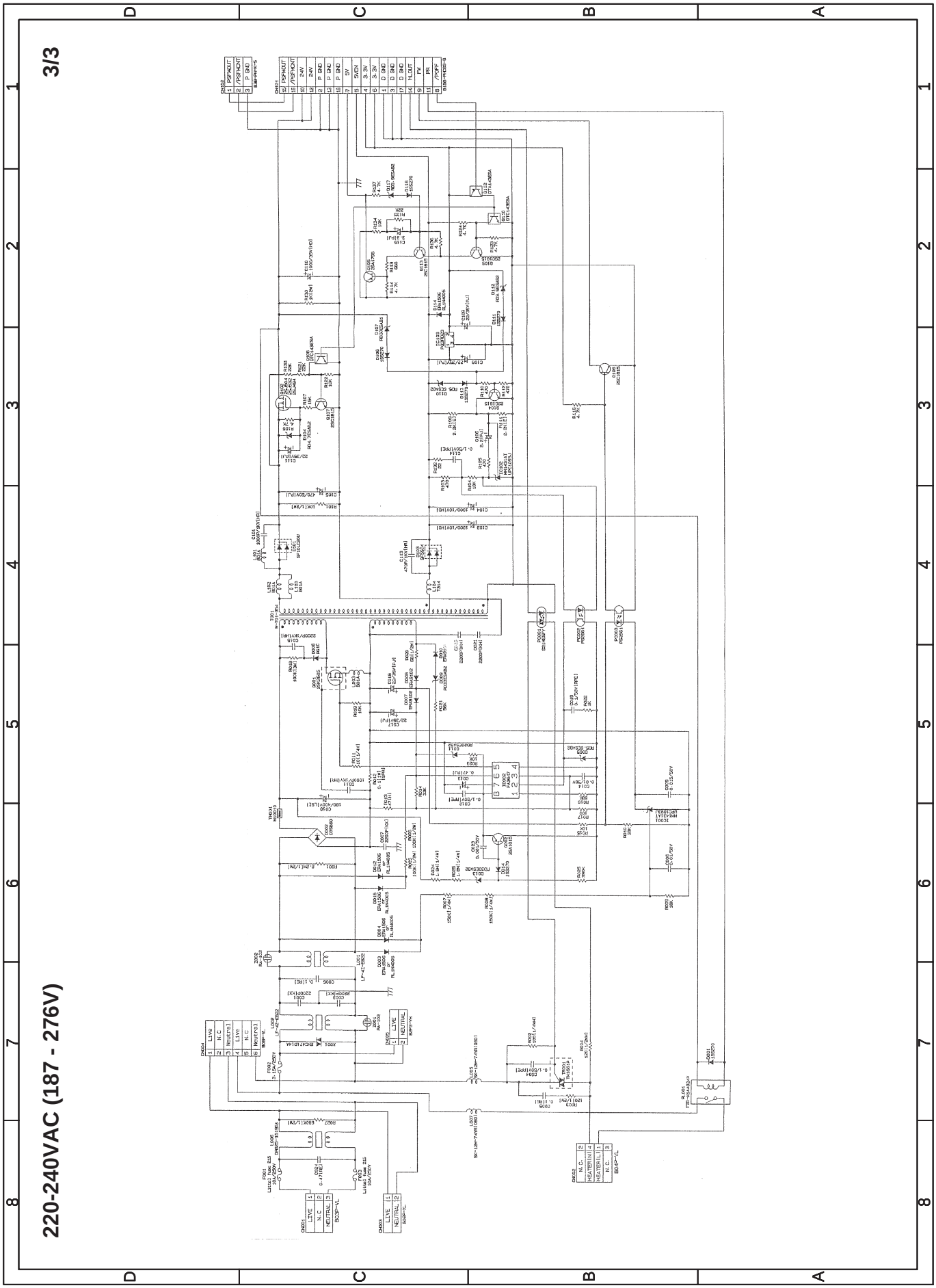
2. LOW VOLTAGE POWER SUPPLY

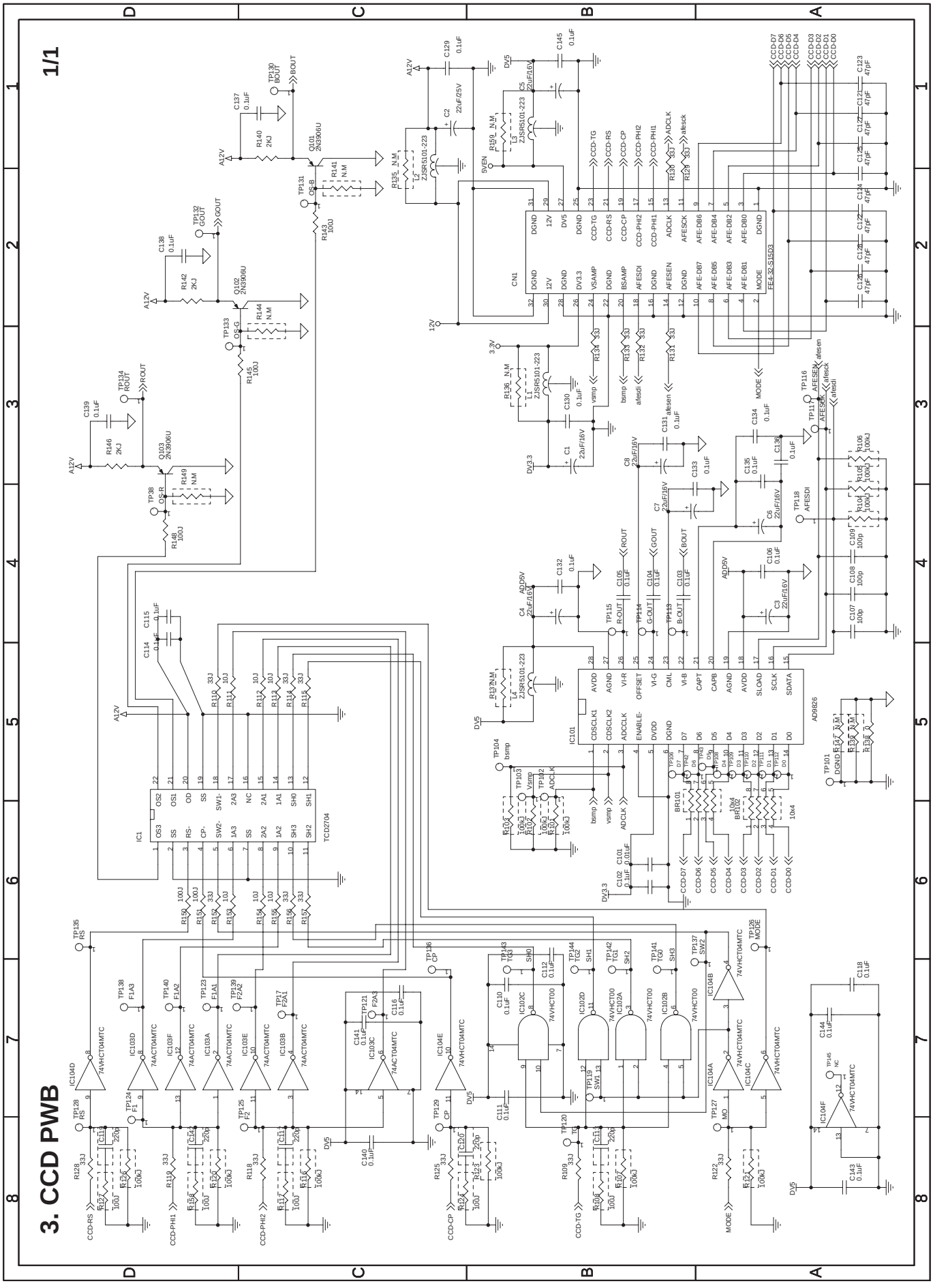
100VAC (85 - 127V)

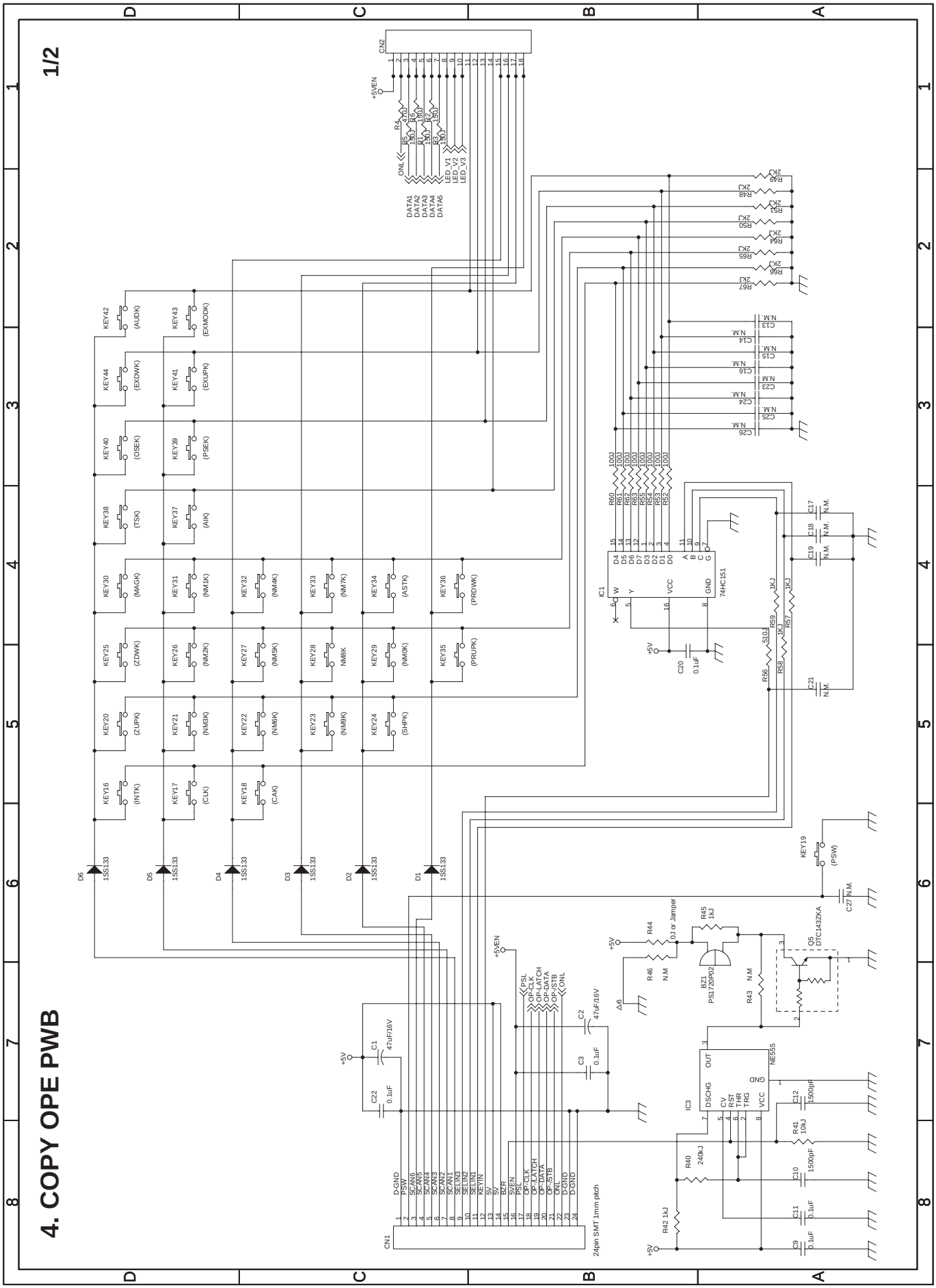
1/3

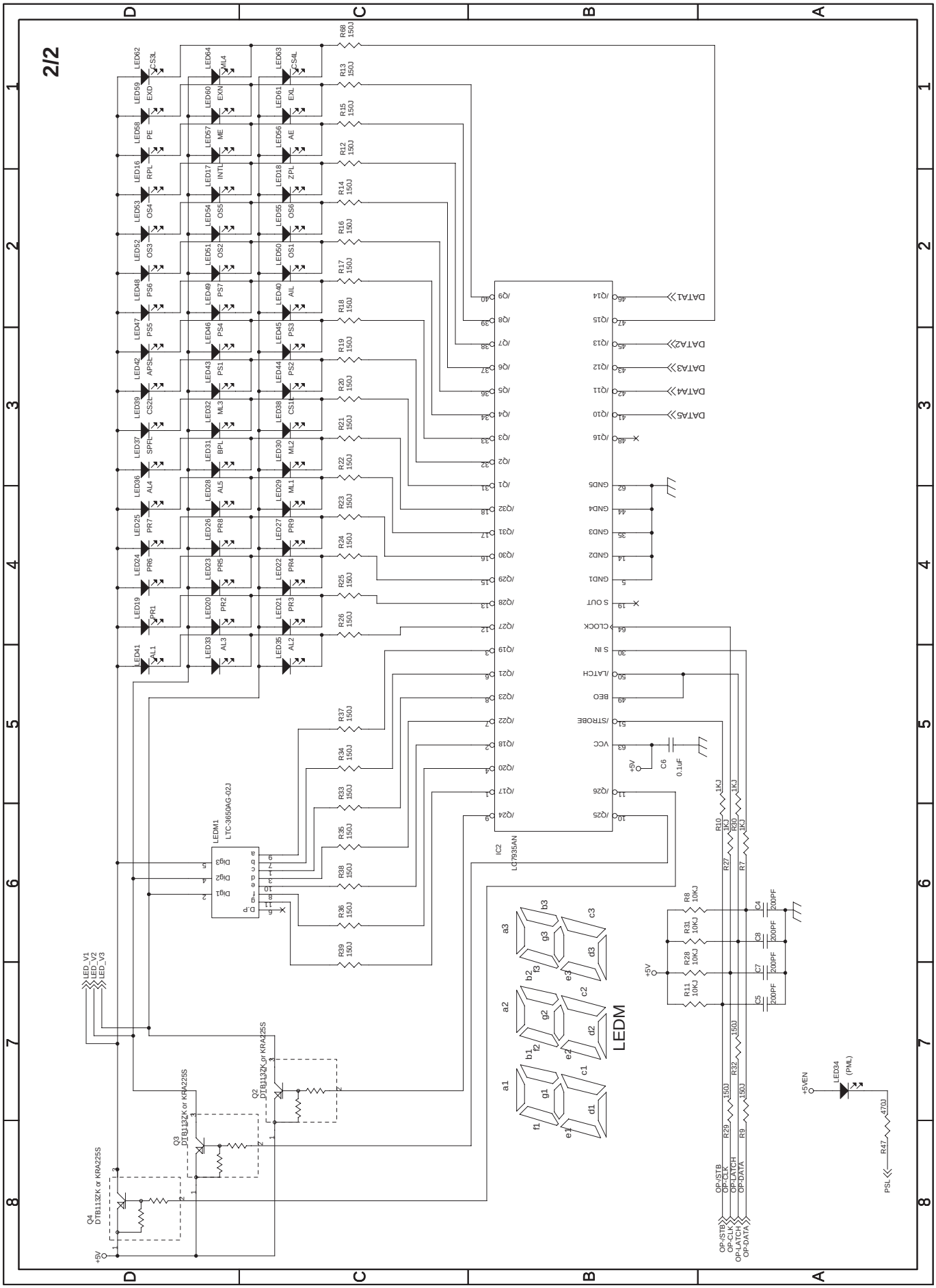


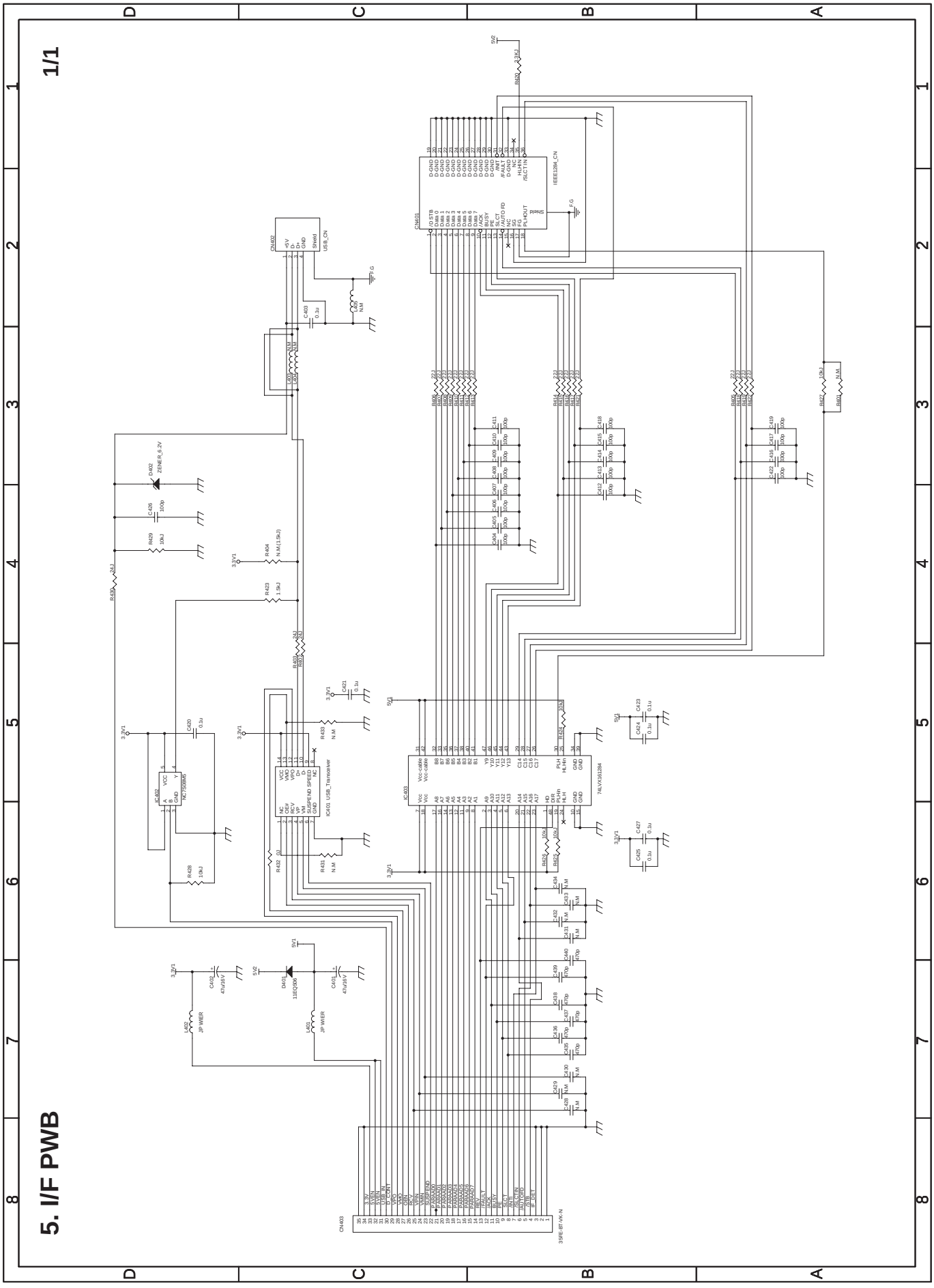

2/3
120VAC (102 - 140V)

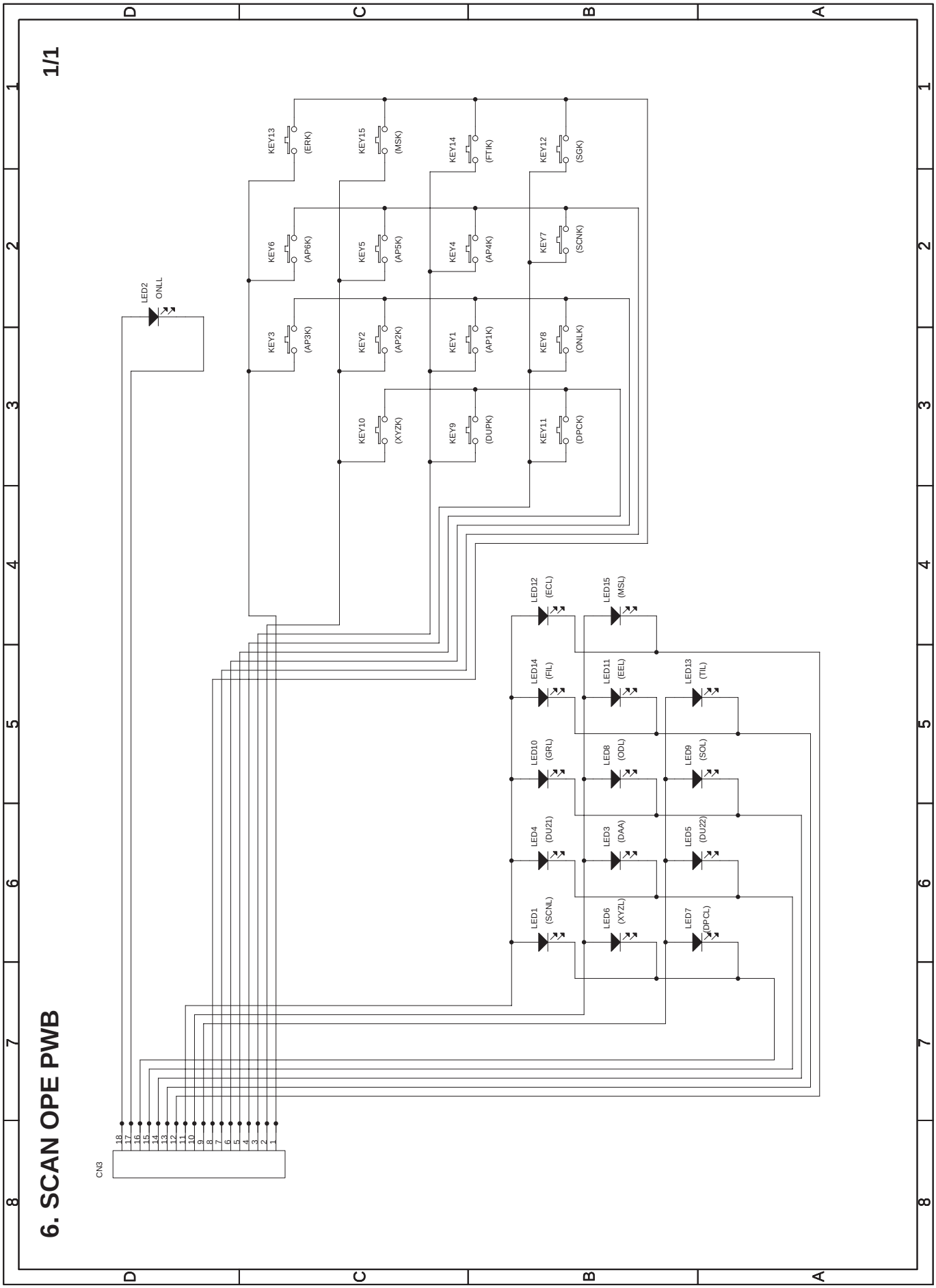

3/3
220-240VAC (187 - 276V)

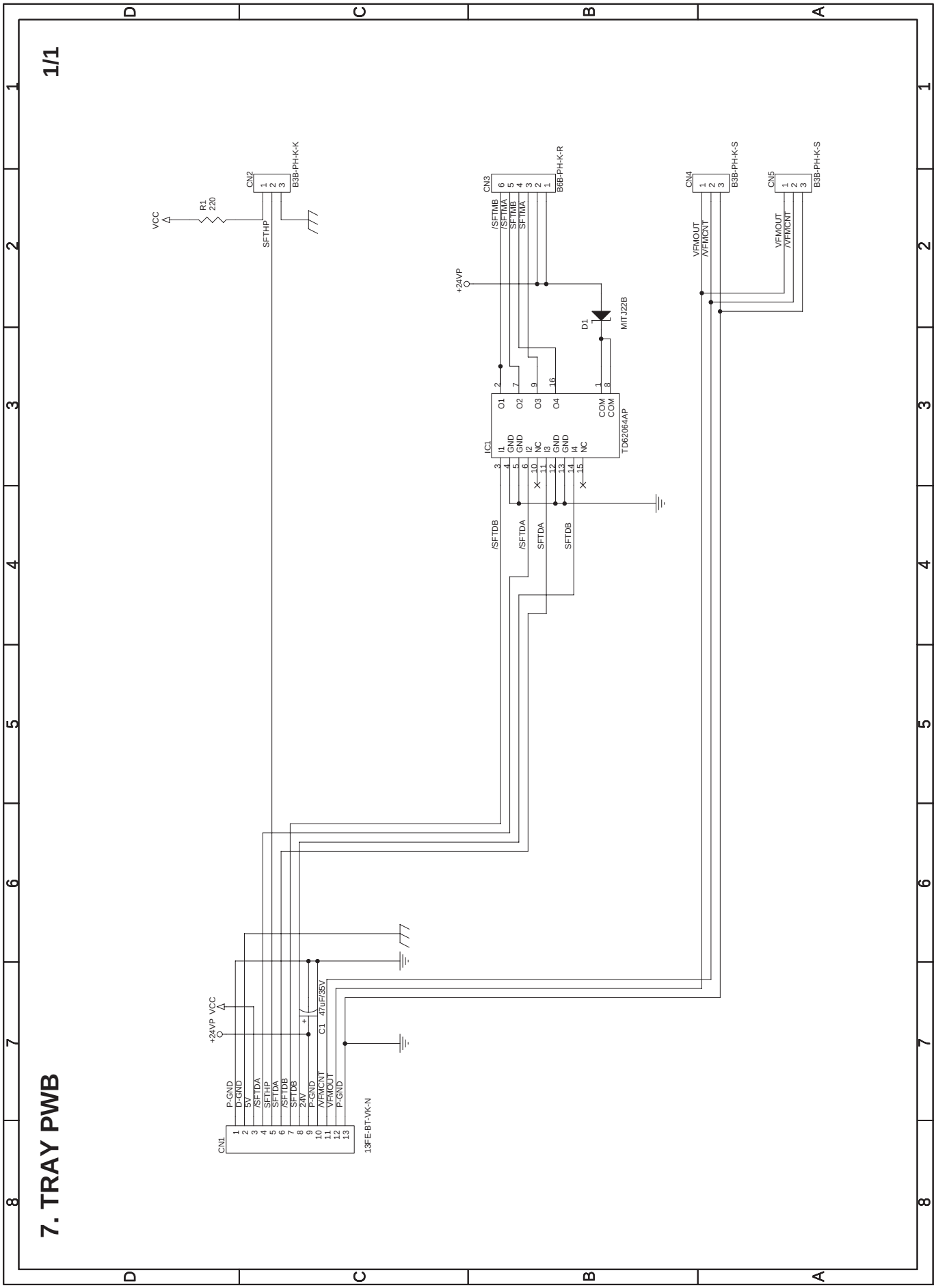

3. CCD PWB
1/1


4. COPY OPE PWB
1/2
CN1
24pin SMT 1mm pitch
CN2
IC1
74HC151
IC3
NE555
KEY16 (INTK)
KEY17 (CLK)
KEY18 (CAK)
KEY19 (PSW)
KEY20 (ZUPK)
KEY21 (NM3K)
KEY22 (NM6K)
KEY23 (NM9K)
KEY24 (SHPK)
KEY25 (ZDWK)
KEY26 (NM2K)
KEY27 (NM5K)
KEY28 NM8K
KEY29 (NM0K)
KEY30 (MAGK)
KEY31 (NM1K)
KEY32 (NM4K)
KEY33 (NM7K)
KEY34 (ASTK)
KEY35 (PRUPK)
KEY36 (PRDWK)
KEY37 (AIK)
KEY38 (TSK)
KEY39 (PSEK)
KEY40 (OSEK)
KEY41 (EXUPK)
KEY42 (AUDK)
KEY43 (EXMODK)
KEY44 (EXDWK)
D1 1SS133
D2 1SS133
D3 1SS133
D4 1SS133
D5 1SS133
D6 1SS133
Q5 DTC1432KA
BZ1 PS1720P02
+5V
+5VEN
D-GND
PSW
SCAN6
SCAN5
SCAN4
SCAN3
SCAN2
SCAN1
SELIN3
SELIN2
SELIN1
KEYIN
5V
5V
BZR
5VEN
PSEL
OP-CLK
OP-LATCH
OP-DATA
OP-/STB
ONL
DATA1
DATA2
DATA3
DATA4
DATA5
LED_V1
LED_V2
LED_V3


2/2
LEDM
IC2
LC79355AN
LEDM1
LTC-3650AG-02J
Q2
Q3
Q4
DTB113ZK or KRA225S
LED34
(PML)
+5V
+5VEN
C6
0.1uF
C4
C5
C7
C8
200PF
R8
R31
R28
R11
10KJ
R10
R30
R27
R7
1KJ
R68
R13
R15
R12
R14
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R37
R34
R33
R35
R38
R36
R39
150J
R29
R9
R32
R47
470J
DATA1
DATA2
DATA3
DATA4
DATA5
S OUT
S IN
CLOCK
/LATCH
BEO
/STROBE
VCC
GND1
GND2
GND3
GND4
GND5
OP-/STB
OP-CLK
OP-LATCH
OP-DATA
LED_V1
LED_V2
LED_V3
LED62 -CS3L
LED64 ML4
LED63 -CS4L
LED59 EXD
LED60 EXN
LED61 EXL
LED58 PE
LED57 ME
LED56 AE
LED16 RPL
LED17 INTL
LED18 ZPL
LED53 OS4
LED54 OS5
LED55 OS6
LED52 OS3
LED51 OS2
LED50 OS1
LED48 PS6
LED49 PS7
LED40 AIL
LED47 PS5
LED46 PS4
LED45 PS3
LED42 APSL
LED43 PS1
LED44 PS2
LED39 CS2L
LED32 ML3
LED38 CS1L
LED37 SPFL
LED31 BPL
LED30 ML2
LED36 AL4
LED28 AL5
LED29 ML1
LED25 PR7
LED26 PR8
LED27 PR9
LED24 PR6
LED23 PR5
LED22 PR4
LED19 PR1
LED20 PR2
LED21 PR3
LED41 AL1
LED33 AL3
LED35 AL2


5. I/F PWB
1/1


6. SCAN OPE PWB
1/1
D
C
B
A
1
2
3
4
5
6
7
8
LED2
ONLL
KEY13
(ERK)
KEY15
(MSK)
KEY14
(FTIK)
KEY12
(SGK)
KEY6
(AP6K)
KEY5
(AP5K)
KEY4
(AP4K)
KEY7
(SCNK)
KEY3
(AP3K)
KEY2
(AP2K)
KEY1
(AP1K)
KEY8
(ONLK)
KEY10
(XYZK)
KEY9
(DUPK)
KEY11
(DPCK)
LED12
(ECL)
LED15
(MSL)
LED14
(FIL)
LED11
(EEL)
LED13
(TIL)
LED10
(GRL)
LED8
(ODL)
LED9
(SOL)
LED4
(DU21)
LED3
(DAA)
LED5
(DU22)
LED1
(SCNL)
LED6
(XYZL)
LED7
(DPCL)
CN3
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1


7. TRAY PWB
1/1
CN1
13FE-BT-VK-N
P-GND
D-GND
5V
/SFTDA
SFTHP
SFTDA
/SFTDB
SFTDB
24V
P-GND
/VFMCNT
VFMOUT
P-GND
+24VP
VCC
C1 47uF/35V
CN2
B3B-PH-K-K
VCC
R1 220
SFTHP
CN3
B6B-PH-K-R
/SFTMB
/SFTMA
SFTMB
SFTMA
+24VP
D1
MITJ22B
IC1
TD62064AP
O1
O2
O3
O4
COM
COM
I1
I2
I3
I4
GND
NC
/SFTDB
/SFTDA
SFTDA
SFTDB
CN4
B3B-PH-K-S
VFMOUT
/VFMCNT
CN5
B3B-PH-K-S
VFMOUT
/VFMCNT

SHARP

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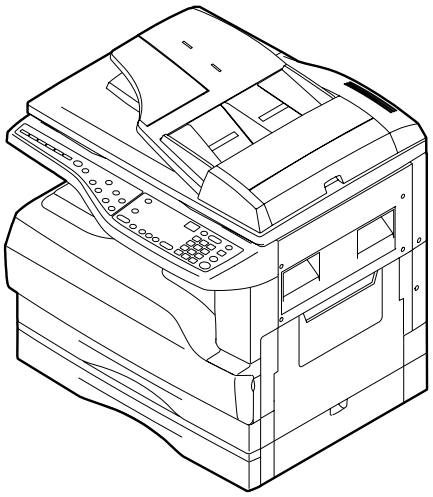
Products Quality Assurance Department
Yamatokoriyama, Nara 639-1186, Japan
2003 June Printed in Japan ⓣ

SHARP PARTS GUIDE

CODE:00ZARM205/P1/



デジタル複合機
DIGITAL COPIER

AR-M205
AR-200M
AR-160M
AR-M160
MODEL AR-5220

このパーツガイドに掲載されている表示価格ランクは消費税抜きです。

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3 ｻｲﾄﾞﾄﾞｱｰﾕﾆｯﾄ (Side door unit)
4 光学ﾕﾆｯﾄ (Optical unit)
5 第 2. 3 ﾐﾗｰﾕﾆｯﾄ (2nd,3rd mirror unit)
6 中間ﾌﾚｰﾑﾕﾆｯﾄ (Middle frame unit)
7 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)
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9 定着ﾕﾆｯﾄ (Fusing unit)
10 ﾒｲﾝ駆動ﾕﾆｯﾄ (Main driving unit)
11 台板ﾕﾆｯﾄ 1 (Base plate unit 1)
12 台板ﾕﾆｯﾄ 2 (Base plate unit 2)
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14 排紙ﾌﾚｰﾑﾕﾆｯﾄ (Delivery frame unit)
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19 1ST ﾄﾚｲ給紙ﾕﾆｯﾄ (1ST Tray paper feeding unit) AR200M,AR-M205
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SHARP CORPORATION

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補修部品のランク付

市場における補修部品の在庫管理が、適正に運営出来る手助けとなることを、目的とします。

Aランク ： メンテナンスパーツ、メンテナンスパーツには入っていないがメンテナンスパーツに近い消耗パーツ。
Bランク ： 性能・機能パーツ（センサー、クラッチ等の電気パーツ）、消耗パーツ。
Eランク ： 基板含むユニットパーツ。
Dランク ： 整備パーツ（外装、パッキング、同梱パーツ）。
Cランク ： 上記ランク以外のパーツ（基板の子部品を除いたもの）。

DEFINITION

Rank A : Maintenance parts, and consumable parts which are not included in but closely related to maintenance parts
Rank B : Performance/function parts (sensors, clutches, and other electrical parts), consumable parts
Rank E : Unit parts including PWB
Rank D : Preparation parts (External fitting, packing, parts packed together)
Rank C : Parts other than the above (excluding sub components of PWB)

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。
⚠ 印の商品は、安全上重要な部品です。交換をする時は、安全及び性能維持のため必ず指定の部品をご使用下さい。

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

○ 当モデルのサービス資料には、この資料以外にサービスマニュアル（回路図含む）があります。合わせてご利用下さい。
○ Other than this Parts Guide, please refer to documents Service Manual (including Circuit Diagram) of this model.
○ Please use the 13 digit code described in the right hand corner of front cover of the document, when you place an order.
○ For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.

---

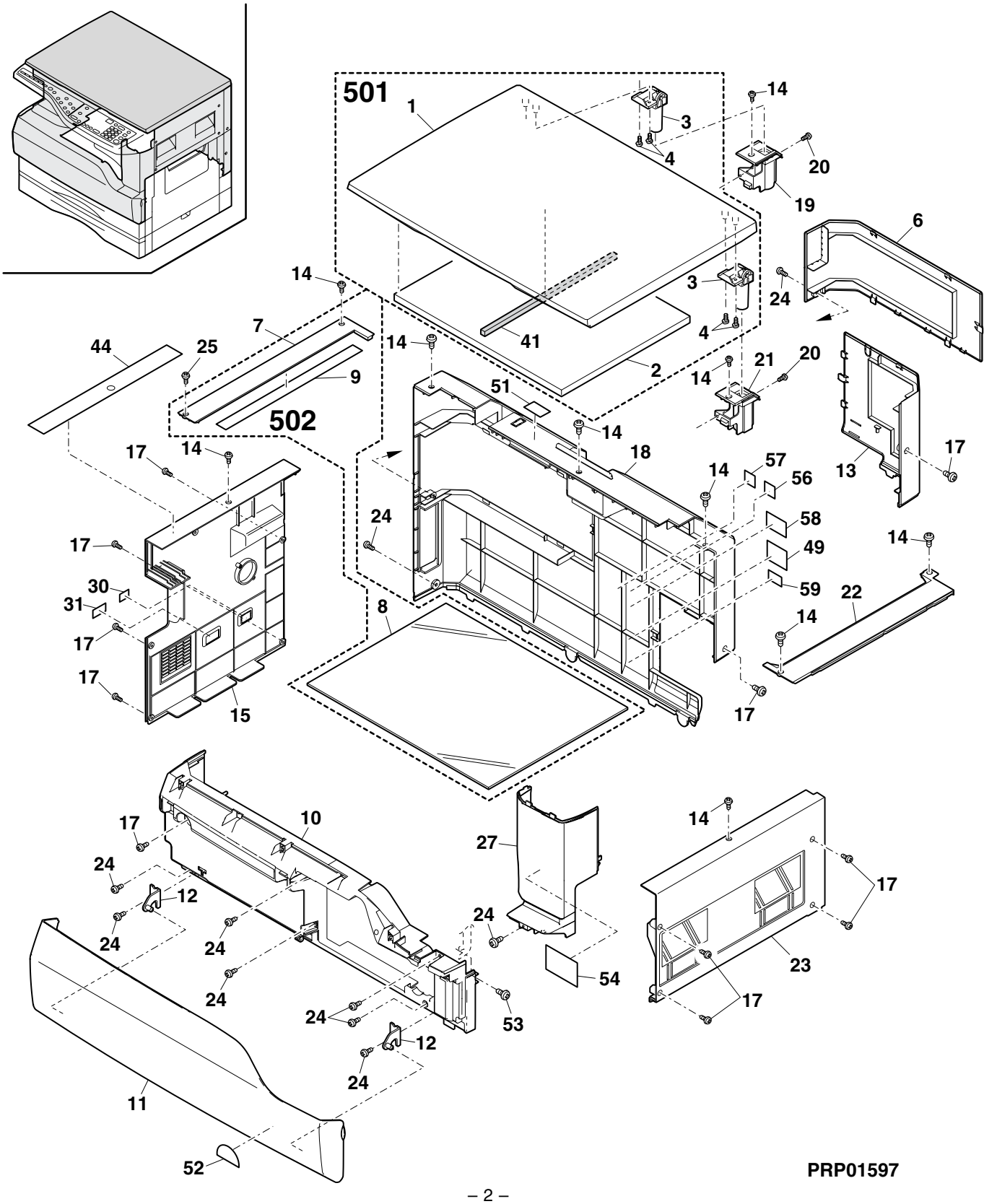
1 外装 (Exteriors)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	GCOVH0010QSE5	BD	GJ	N	D	OC cover	[AR-200M/AR-160M/AR-M160/AR-5220]	OC ｶﾊﾞｰ
2	PCUSS0023QSZZ	AV	FG		C	OC sheet	[AR-200M/AR-160M/AR-M160/AR-5220]	OC ﾏｯﾄ
3	CHNG-0007QS02	AM	EG	N	C	OC hinge	[AR-200M/AR-160M/AR-M160/AR-5220]	OC ﾋﾝｼﾞ
4	XEBSE40P10000	AA	DD		C	Screw(4×10)	[AR-200M/AR-160M/AR-M160/AR-5220]	ﾋﾞｽ
6	GCOV-0047QSZZ	AM	EG	N	D	Rear exterior ERDH cover		後ｷｬﾋﾞﾈｯﾄ ERDH ｶﾊﾞｰ
7	CFiX-0024QS02	AL	EB	N	D	Glass fixing plate	(Japan only)	ｶﾞﾗｽ押え板
	CFiX-0024QS01	AL	EB	N	D	Glass fixing plate	(Other Countries)	ｶﾞﾗｽ押え板
8	PGLSP0003QSZZ	BA	FX		B	Table glass		ﾃｰﾌﾞﾙｶﾞﾗｽ
9	PSHEZ0220QSZ1	AK	DX		C	Sheet		ｼｪｰﾃﾞｨﾝｸﾞｼｰﾄ
10	GCAB-0068QSZZ	AV	FG	N	D	Front exterior		前ｷｬﾋﾞﾈｯﾄ
11	CCOV-0046QS06	AX	FG	N	D	Front exterior cover	[AR-200M]	前ｷｬﾋﾞﾈｯﾄ蓋
	CCOV-0046QS01	AV	FG	N	D	Front exterior cover	[AR-160M]	前ｷｬﾋﾞﾈｯﾄ蓋
	CCOV-0046QS07	AX	FG	N	D	Front exterior cover	[AR-M160]	前ｷｬﾋﾞﾈｯﾄ蓋
	CCOV-0046QS02	AX	FG	N	D	Front exterior cover	[AR-M205]	前ｷｬﾋﾞﾈｯﾄ蓋
	CCOV-0046QS05	AW	FG	N	D	Front exterior cover	[AR-5220]	前ｷｬﾋﾞﾈｯﾄ蓋
12	CARMP0010QS01	AD	DJ		C	Hinge arm		ﾋﾝｼﾞｱｰﾑ
13	GCOV-0048QSZZ	AM	EG	N	D	Rear exterior cover		後ｷｬﾋﾞﾈｯﾄｶﾊﾞｰ
14	LX-BZ0750FCZZ	AB	DD		C	Screw(3×6)		ﾋﾞｽ
15	GCAB-0071QSZZ	AV	FG	N	D	Left exterior	(Japan only)	左ｷｬﾋﾞﾈｯﾄ
	GCAB-0071QSZ1	AV	FG	N	D	Left exterior	(Other Countries)	左ｷｬﾋﾞﾈｯﾄ
17	XHBSE30P08000	AA	DD		C	Screw(3×8)		ﾋﾞｽ
18	GCAB-0070QSZZ	BA	FX	N	D	Rear exterior		後ｷｬﾋﾞﾈｯﾄ
19	PGiDM0110QSZZ	AG	DX	N	C	Hinge guide L		ﾋﾝｼﾞｶﾞｲﾄﾞ L
20	XHBSD30P06000	AA	DD		C	Screw(3×6)		ﾋﾞｽ
21	PGiDM0111QSZZ	AG	DX	N	C	Hinge guide R		ﾋﾝｼﾞｶﾞｲﾄﾞ R
22	GCOVH0011QSE1	AM	EG	N	D	OC glass fixing cover		OC ｶﾞﾗｽ押えｶﾊﾞｰ
23	GCAB-0015QSE1	AU	EZ	N	D	Right exterior		右ｷｬﾋﾞﾈｯﾄ
24	XEBSE40P10000	AA	DD		C	Screw(4×10)		ﾋﾞｽ
25	LX-BZ0759FCZZ	AB	DD		C	Screw(3×6)		ﾋﾞｽ
27	GCAB-0079QSZZ	AP	EQ	N	D	Front right exterior	(U.S.A only)	前右ｷｬﾋﾞﾈｯﾄ
	CCAB-0079QS01	AQ	EQ	N	D	Front right exterior	(Except U.S.A)	前右ｷｬﾋﾞﾈｯﾄ
30	TLABH0103QSZ1	AB	DJ	N	D	Warm heater label	(Japan only)	保温ﾋｰﾀｰﾗﾍﾞﾙ
31	TLABH0104QSZ1	AB	DJ	N	D	Power supply label	(Japan only)	電源ﾗﾍﾞﾙ
41	PMLT-0039QSZZ	AC	DJ		C	OC cushion	[AR-200M/AR-160M/AR-M160/AR-5220]	OC ｸｯｼｮﾝ
44	TLABH0457QSZZ	AG	DX	N	D	Operation label	(Japan only)	操作説明ﾗﾍﾞﾙ
	TLABH0458QSZZ	AF	DS	N	D	Operation label	(Other Countries)	操作説明ﾗﾍﾞﾙ
49	TLABG0408QSZZ	AD	DJ		D	Class 1 label	(Japan only)	ｸﾗｽ 1 ﾗﾍﾞﾙ
	TLABZ0058QSZZ	AD	DJ		D	Class 1 label	(Except Japan, U.S.A,Canada,Taiwan,Brazil,Saudi Arabia,LAG2)	ｸﾗｽ 1 ﾗﾍﾞﾙ
51	TLABH0482QSZZ	AE	DS	N	D	Scanning direction label		ｽｷｬﾝ方向ﾗﾍﾞﾙ
52	TLABG0401QSZZ	AR	EQ		D	Energy star label	(Hong kong only)	ｴﾅｼﾞｰｽﾀｰﾗﾍﾞﾙ
	TLABZ4312FCZZ	AE	DS		D	Energy star label	(Canada only)	ｴﾅｼﾞｰｽﾀｰﾗﾍﾞﾙ
	TLABZ4047FCZZ	AC	DJ		D	Energy star label	(Japan,U.S.A,U.Kingdom, Europe,Australia,New Zealand)	ｴﾅｼﾞｰｽﾀｰﾗﾍﾞﾙ
53	LX-BZ3008SC0S	AA	DD		C	Screw(3×8)		ﾋﾞｽ
54	TLABM0520QSZZ	AE	DJ	N	D	Imagery label	(U.S.A only)	ｲﾒｰｼﾞｬｰﾗﾍﾞﾙ
56	TLABS4070FCZZ	AC	DJ		D	Gost-R label	(Poland only)	Gost-R ﾗﾍﾞﾙ
57	TLABS4770FCZZ	AD	DJ		D	Standard label	(Poland only)	規格ﾗﾍﾞﾙ

1 外装 (Exteriors)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
58	TLABH4771FCZZ	AF	DS		D	Class 1 label (Poland only) ｸﾗｽ 1 ﾗﾍﾞﾙ
	TLABZ0105RSZZ	AD	DJ		D	LAG place origin label (LAG4) LAG 原産地ﾗﾍﾞﾙ
59	TCAUH1047FCZZ	AD	DJ		D	Service caution label (Poland only) ｻｰﾋﾞｽ注意ﾗﾍﾞﾙ
501	CCOVH0010RS56	BK	HG	N	E	OC cover unit [AR-200M,AR-160M,AR-M160,AR-5220] OC ｶﾊﾞｰﾕﾆｯﾄ
502	CFiX-0024RS52	BD	GJ	N	E	Table unit (Japan only) ﾃｰﾌﾞﾙﾕﾆｯﾄ
	CFiX-0024RS51	BD	GJ	N	E	Table unit (Other countries) ﾃｰﾌﾞﾙﾕﾆｯﾄ

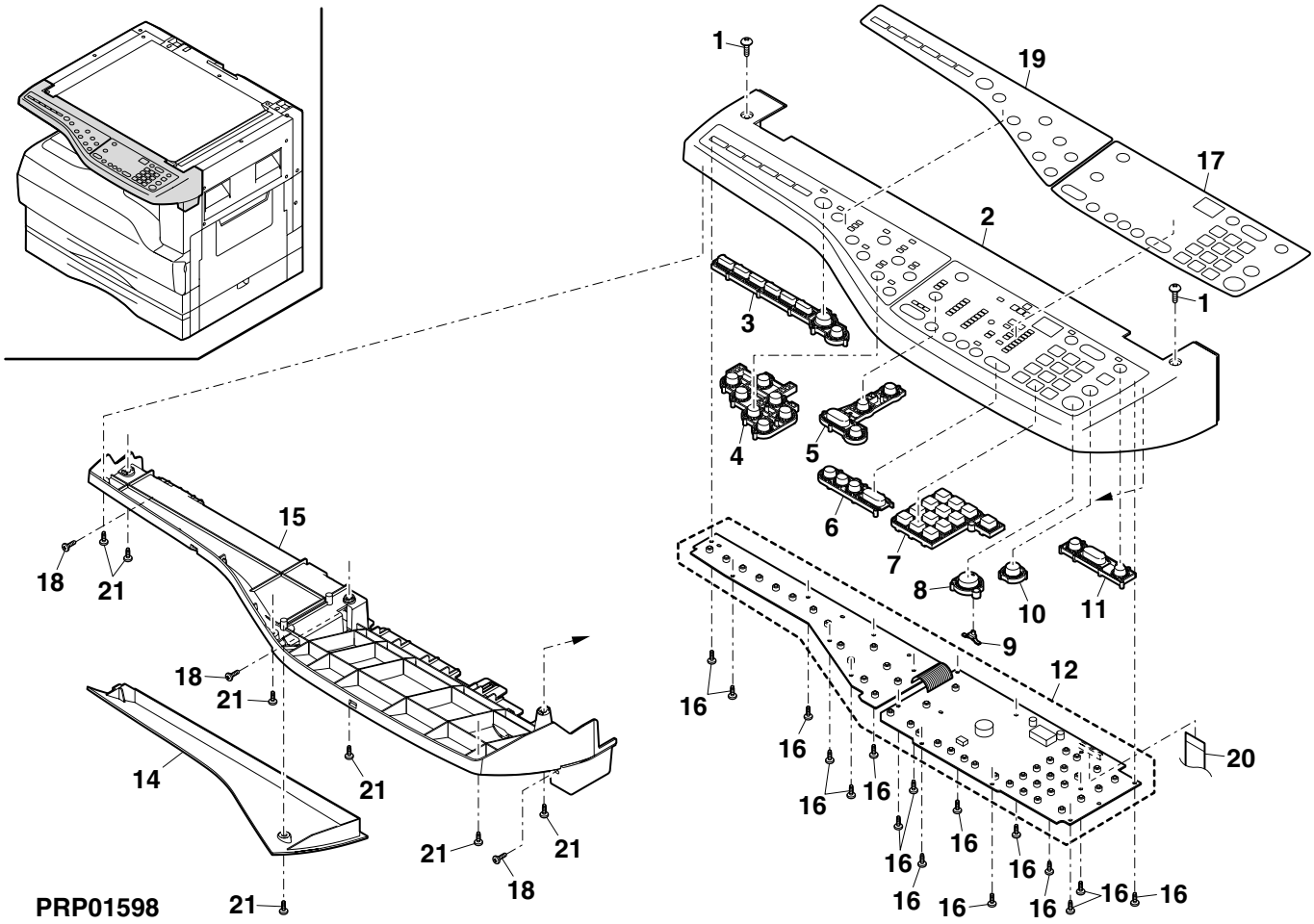
1 外装 (Exteriors)



2 操作部 (Operation panel section)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	LX-BZ0750FCZZ	AB	DD		C	Screw(3×6)	ﾋﾞｽ
2	GCAB-0073QSZZ	AW	FG	N	D	Operation panel exterior	操作ﾊﾟﾈﾙｷｬﾋﾞﾈｯﾄ
3	CBTN-0067QS01	AG	DS	N	C	Scanning key	ｽｷｬﾝｷｰ
4	JBTN-0066QSZZ	AH	DX	N	C	Special function key	特殊ｷｰ
5	JBTN-0065QSZZ	AE	DJ	N	C	Mode select key	画質ｷｰ
6	JBTN-0064QSZZ	AF	DS	N	C	Magnification key	倍率ｷｰ
7	CBTN-0060QS01	AK	DX	N	C	Ten key	ﾃﾝｷｰ
8	CBTN-0061QS01	AE	DS	N	C	Start key AS	ｽﾀｰﾄｷｰ AS
9	PFiLZ0012QSZZ	AC	DJ	N	C	Start key LG	ｽﾀｰﾄｷｰ LG
10	CBTN-0062QS02	AE	DS	N	C	CA key (Japan only)	CA ｷｰ
	CBTN-0062QS01	AF	DS	N	C	CA key (Other Countries)	CA ｷｰ
11	JBTN-0063QSZZ	AE	DJ	N	C	Zoom key	ｽﾞｰﾑｷｰ
12	DUNTK0353QSA6	BF	GN	N	E	Operation PWB [AR-160M/AR-M160(Other Countries)]	操作基板
	DUNTK0353QSA4	BF	GN	N	E	Operation PWB [AR-M160(U.S.A,Canada, U.kingdom,Europe)/AR-5220]	操作基板
	DUNTK0353QSA3	BF	GN	N	E	Operation PWB [AR-M205(U.S.A, Canada,U.kingdom,Europe)]	操作基板
14	GCOV-0050QSZZ	AN	EG	N	D	Operation panel cover	操作ﾊﾟﾈﾙｶﾊﾞｰ
15	GCAB-0067QSZZ	AX	FG	N	D	Operation panel bottom	操作ﾊﾟﾈﾙ下
16	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
17	CPNLH0026QS01	AU	EZ	N	D	Main Deco.panel (Japan only)	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS13	AU	EZ	N	D	Main Deco.panel [AR-M160(U.S.A only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS02	AU	EZ	N	D	Main Deco.panel [AR-M205(U.S.A only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS03	AV	FG	N	D	Main Deco.panel [AR-M205(Canada only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS15	BA	FX	N	D	Main Deco.panel [AR-M160(U.kingdom only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS04	BA	FX	N	D	Main Deco.panel [AR-M205(U.kingdom only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS16	AU	EZ	N	D	Main Deco.panel [AR-M160(Europe)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS05	AV	FG	N	D	Main Deco.panel [AR-M205(Europe)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS20	BA	FX	N	D	Main Deco.panel [AR-M160(Philippines only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS11	BA	FX	N	D	Main Deco.panel [AR-M205(Philippines only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS19	BA	FX	N	D	Main Deco.panel [AR-M160(Taiwan only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS10	BA	FX	N	D	Main Deco.panel [AR-M205(Taiwan only)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS08	AV	FG	N	D	Main Deco.panel [AR-M160(Canada only)/AR-5220]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS18	AU	EZ	N	D	Main Deco.panel [AR-M160(Other Countries)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
	CPNLH0026QS09	AV	FG	N	D	Main Deco.panel [AR-M205(Other Countries)]	ﾒｲﾝﾃﾞｺﾊﾟﾈﾙ
18	XHBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
19	CPNLH0027QS02	AT	EZ	N	D	DUP Deco.panel [AR-M205(U.S.A,U.kingdom)]	DUP ﾃﾞｺﾊﾟﾈﾙ
	CPNLH0027QS03	AU	FG	N	D	DUP Deco.panel [AR-M205(Other Countries)]	DUP ﾃﾞｺﾊﾟﾈﾙ
	CPNLH0028QS01	AV	FG	N	D	SIMP Deco.panel (Japan only)	SIMP ﾃﾞｺﾊﾟﾈﾙ
	CPNLH0028QS02	AU	EZ	N	D	SIMP Deco.panel [AR-M160(U.S.A,U.kingdom)]	SIMP ﾃﾞｺﾊﾟﾈﾙ
	CPNLH0028QS03	AT	EZ	N	D	SIMP Deco.panel [AR-M160(Other Countries)/AR-5220]	SIMP ﾃﾞｺﾊﾟﾈﾙ
20	DHAi-0324QSZZ	AH	DX	N	C	OP-MCU FFC harness	OP-MCU FFC ﾊｰﾈｽ
21	XEBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
	(Unit)						
901	CCAB-0073RS58	BP	LP	N	E	Operation panel unit [AR-200M]	操作ﾊﾟﾈﾙﾕﾆｯﾄ
	CCAB-0073RS52	BP	LP	N	E	Operation panel unit [AR-M160(U.S.A only)]	操作ﾊﾟﾈﾙﾕﾆｯﾄ
	CCAB-0073RS53	BP	LP	N	E	Operation panel unit [AR-M160(Canada only)]	操作ﾊﾟﾈﾙﾕﾆｯﾄ
	CCAB-0073RS59	BP	LP	N	E	Operation panel unit [AR-M205(U.S.A only)]	操作ﾊﾟﾈﾙﾕﾆｯﾄ
	CCAB-0073RS60	BQ	LP	N	E	Operation panel unit [AR-M205(Canada only)]	操作ﾊﾟﾈﾙﾕﾆｯﾄ

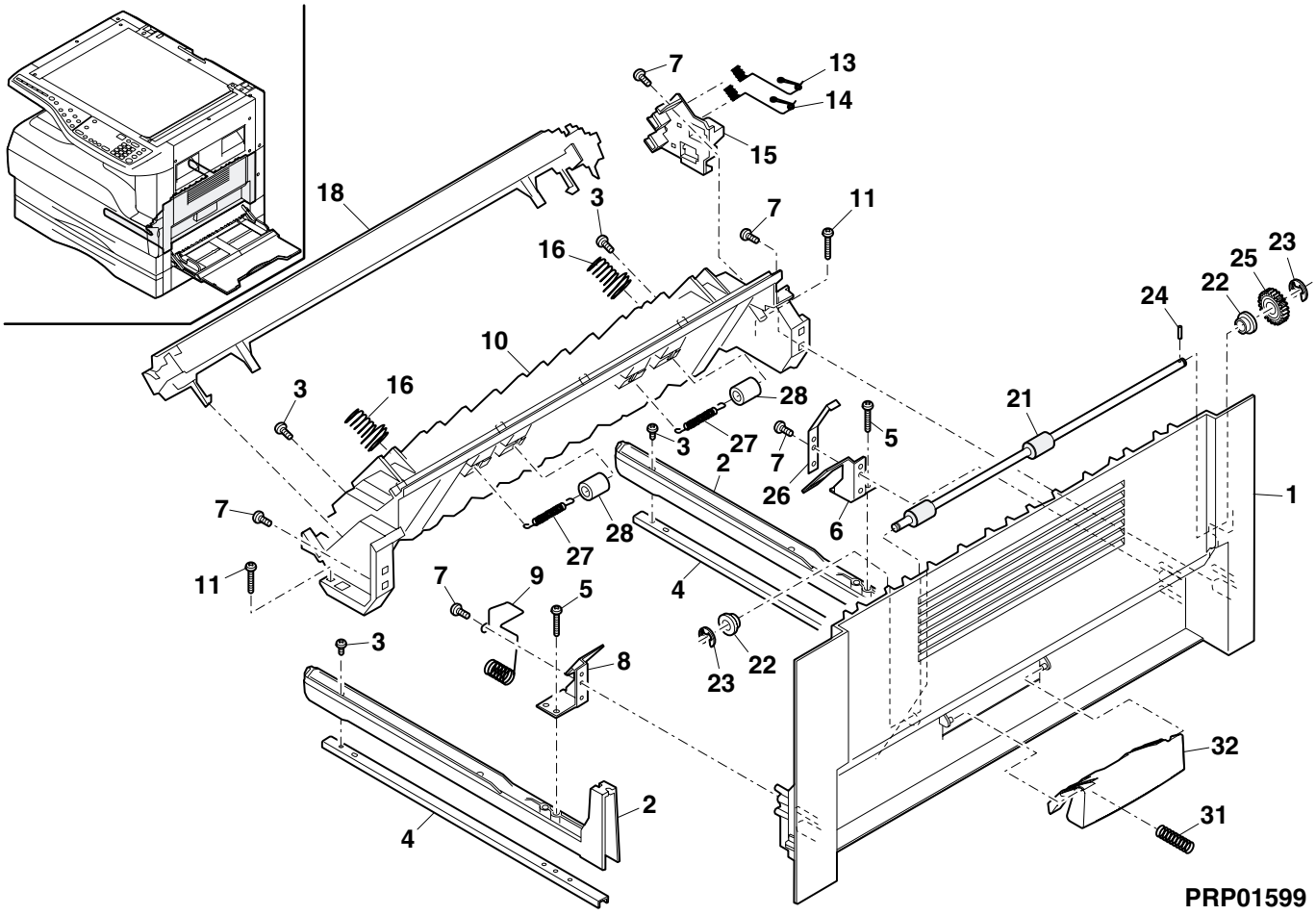
2 操作部 (Operation panel section)



3 ｻｲﾄﾞﾄﾞｱｰﾕﾆｯﾄ (Side door unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	GDOR-0004QSZZ	AQ	EQ	N	D	Right door	右ﾄﾞｱｰ
2	LRALP0004QSZ2	AH	DX	N	C	Right door rail	右ﾄﾞｱｰﾚｰﾙ
3	XHBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
4	LPLTM0092QSZZ	AF	DS	N	C	Rail reinforce plate	ﾚｰﾙ補強板
5	XHBSD30P14000	AA	DD		C	Screw(3×14)	ﾋﾞｽ
6	LPLTM0091QSZZ	AE	DS		C	Inner reinforce plate R	ｲﾝﾅｰ補強板 R
7	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
8	LPLTM0090QSZZ	AE	DS		C	Inner reinforce plate F	ｲﾝﾅｰ補強板 F
9	MSPRC0085QSZZ	AE	DJ		C	TC case GND spring	TC ｹｰｽ GND ﾊﾞﾈ
10	LFRM-0016QSZ4	AQ	EQ		C	Right door inner N	右ﾄﾞｱｲﾝﾅｰ N
11	XHBSD30P16000	AA	DD		C	Screw(3×16)	ﾋﾞｽ
13	MSPRC0084QSZ1	AD	DJ		C	BC I/F spring	BC 中継電極ﾊﾞﾈ
14	MSPRC0083QSZ1	AD	DJ		C	TC I/F spring	TC 中継電極ﾊﾞﾈ
15	LHLDZ0033QSZ1	AF	DS		C	TC terminal I/F holder	TC 端子中継ﾎﾙﾀﾞｰ
16	MSPRC0082QSZ1	AC	DJ		C	Pressure spring	転写圧接用ﾊﾞﾈ
21	NROLP0036QSZZ	AP	EQ	N	C	DUP transport roller [AR-M205]	DUP 搬送ﾛｰﾗｰ
22	LBSHZ0303FCZZ	AC	DJ		C	M bushing C [AR-M205]	M ﾌﾞｯｼﾝｸﾞ C
23	XRESP40-06000	AA	DD		C	E type ring [AR-M205]	E ﾘﾝｸﾞ
24	XPSSJ20-07000	AA	DD		C	Spring pin(φ2-7) [AR-M205]	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
25	NGERH0074QSZZ	AD	DJ	N	C	DUP roller driving gear [AR-M205]	DUP ﾛｰﾗｰ駆動ｷﾞﾔｰ
26	LPLTM0102QSZZ	AD	DJ		C	DUP roller earth plate [AR-M205]	DUP ﾛｰﾗｰｱｰｽ板
27	MSPRT0141GCA1	AB	DJ		C	FU PSV spring [AR-M205]	FU-PSV ｽﾌﾟﾘﾝｸﾞ
28	NROLP1122FCZZ	AF	DS		C	PS upper roller [AR-M205]	PS 上ﾛｰﾗｰ
31	MSPRC0319QSZZ	AB	DJ	N	C	Right door knob spring	右ﾄﾞｱｰﾉﾌﾞﾊﾞﾈ
32	JKNBZ0008QSZZ	AE	DJ	N	C	Right door knob	右ﾄﾞｱｰﾉﾌﾞ
	(Unit)						
901	CDOR-0004RS51	BC	GD	N	E	Side door unit(Without No.16,18) [AR-200M/AR-160M/AR-M160/AR-5220]	ｻｲﾄﾞﾄﾞｱｰﾕﾆｯﾄ (No.16,18 除く)
	CDOR-0004RS52	BD	GN	N	E	Side door unit(Without No.16,18) [AR-M205]	ｻｲﾄﾞﾄﾞｱｰﾕﾆｯﾄ (No.16,18 除く)

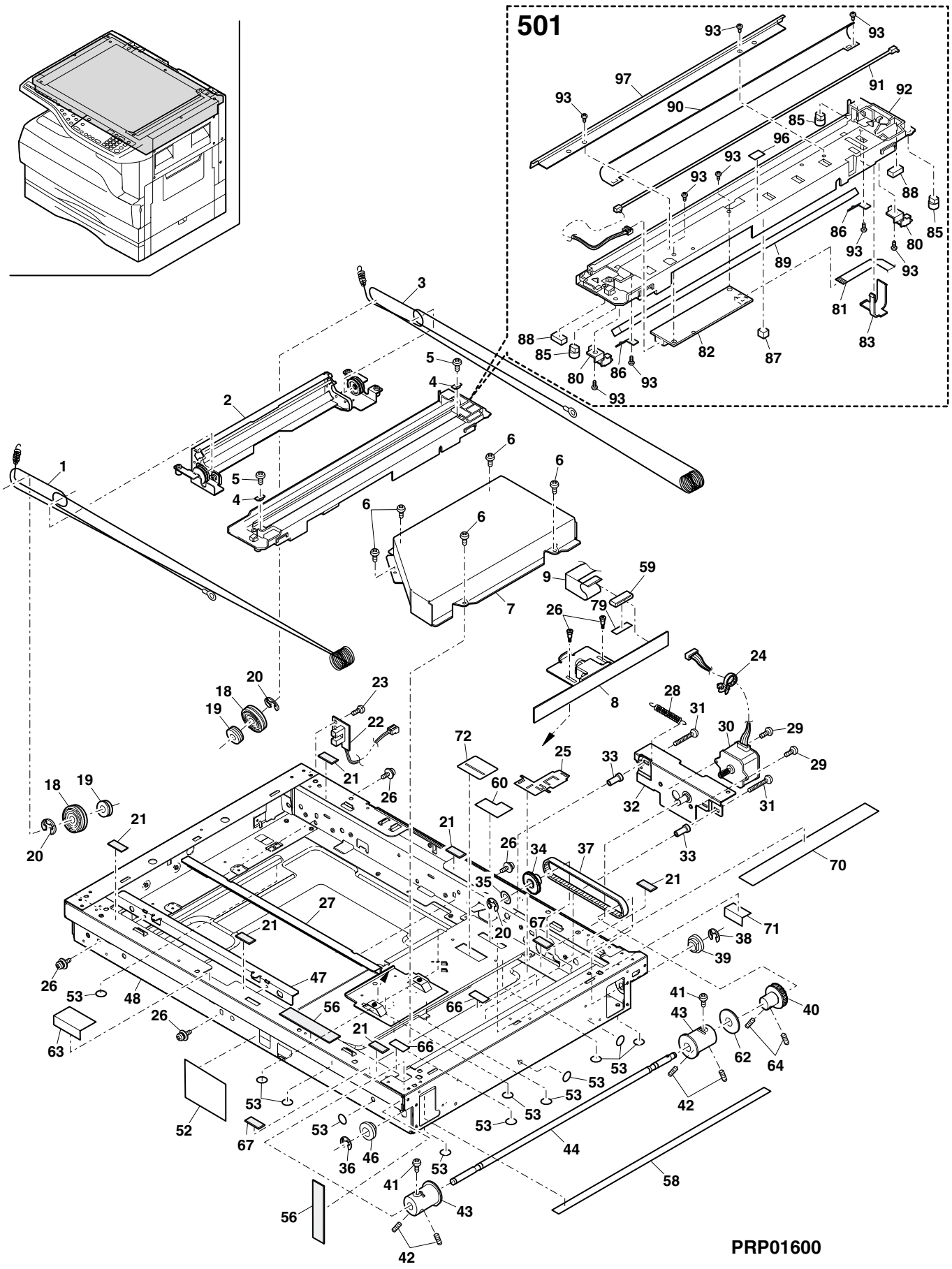
3 ｻｲﾄﾞﾄﾞｱｰﾕﾆｯﾄ (Side door unit)



4 光学ﾕﾆｯﾄ (Optical unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PWiR-0006QSZZ	AQ	EQ		C	MB wire F	MB ﾜｲﾔｰ F
2	CMiR-0008QS35	BB	GD	N	E	2nd,3rd mirror unit	第 2.3 ﾐﾗｰﾕﾆｯﾄ
3	PWiR-0005QSZ1	AQ	EQ		C	MB wire R	MB ﾜｲﾔｰ R
4	LHLDZ0109QSZZ	AD	DJ	N	C	Wire holder	ﾜｲﾔｰﾎﾙﾀﾞｰ
5	XBPSD40P06K00	AA	DD		C	Screw(4×6K)	ﾋﾞｽ
6	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
7	PCASZ0010QSZZ	AL	EB		C	Dark box	暗箱
8	CLNS-0006RS51	BZ	TF	N	E	Lens unit	ﾚﾝｽﾞﾕﾆｯﾄ
9	DHAi-0342QSZZ	AG	DX	N	C	CCD harness	CCD ﾊｰﾈｽ
18	NPLYZ0016QSZZ	AF	DS		C	Pulley	ﾃｲﾌﾟｰﾘｰ
19	NPLYZ0006QSZZ	AD	DJ		C	L pulley	L ﾌﾟｰﾘｰ
20	XRESP40-05000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
21	PGUMS0004QSZZ	AA	DJ		C	Table glass cushion	ﾃｰﾌﾞﾙｶﾞﾗｽｺﾞﾑ
22	CPWBF0147QSE1	AL	EB	N	E	MHPS PWB	MHPS 基板
23	XBBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
24	LBNDJ0043FCZ1	AA	DJ		C	Band(SG-130)	ｽﾅｯﾌﾟﾊﾞﾝﾄﾞ
25	LHLDZ0104QSZZ	AD	DJ	N	C	CL lead holder	CL ﾘｰﾄﾞﾎﾙﾀﾞｰ
26	LX-BZ0004QSZZ	AB	DD		C	Screw(3×63)(Red)	赤ﾋﾞｽ
27	LRALM0007QSZ1	AG	DS		C	MB-B rail R	MB-B ﾚｰﾙ R
28	MSPRC0040QSZZ	AB	DJ		C	MB drive spring	MB 駆動ﾊﾞﾈ
29	XBPSD30P05K00	AA	DD		C	Screw(3×5K)	ﾋﾞｽ
30	RMOTS0041QSZZ	BA	FX	N	B	Mirror motor	ﾐﾗｰﾓｰﾀｰ
31	XBPSD40P16KS0	AA	DD		C	Screw(4×16KS)	ﾋﾞｽ
32	CPLTM0312QS01	AK	DX	N	C	Mirror motor fixing plate	ﾐﾗｰﾓｰﾀ取付板
33	PGUMS0002QSZZ	AL	EB		C	Protection rubber	防振ｺﾞﾑ
34	NGERH0165QSZZ	AE	DJ	N	C	Mirror motor idle gear	ﾐﾗｰﾓｰﾀｰｱｲﾄﾞﾙｷﾞﾔｰ
35	LX-WZ0017GCZZ	AC	DD		C	Washer	ﾜｯｼｬ
36	XRESP70-08000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
37	NBLTT0037QSZZ	AL	EB	N	B	Winder drive belt	巻取り駆動ﾍﾞﾙﾄ
38	XRESP50-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
39	NBRGP0012QSZZ	AC	DJ		C	Winder bearing R	巻取り軸受 R
40	NPLYZ0032QSZZ	AK	DX	N	C	Winder drive shaft pulley	巻取り駆動軸ﾌﾟｰﾘｰ
41	LX-BZ0324FCZZ	AA	DD		C	Screw(3×4)	ﾋﾞｽ
42	LX-BZ0049FCZZ	AB	DD		C	Screw(4×6)	ﾋﾞｽ
43	NPLYZ0031QSZZ	AL	EB	N	C	Winder pulley	巻取りﾌﾟｰﾘｰ
44	NSFTZ0071QSZZ	AK	EB	N	C	Winder drive shaft	巻取り駆動軸
46	NBRGP0011QSZZ	AC	DJ		C	Winder bearing F	巻取り軸受 F
47	LRALM0006QSZZ	AG	DS		C	MB-B rail F	MB-B ﾚｰﾙ F
48	CDAiU0012QS10	BH	GX	N	D	Optical base plate	光学台板
52	PSHEZ0440QSZZ	AC	DJ	N	C	Optical front sheet	光学前ﾏｲﾗｰ
53	PSHEZ0109QSZZ	AC	DJ		C	Optical base plate bottom sheet B	光学台板底ﾏｲﾗｰ B
56	PMLT-0033QSZZ	AC	DJ		C	Optical cushion D	光学ﾓﾙﾄ -D
58	PSHEZ0152QSZZ	AD	DJ		C	Optical bottom sheet	光学底ｼｰﾄ
59	RCORF0018QSZZ	AR	EQ		C	Ferrite core	ﾌｪﾗｲﾄｺｱ
60	PSHEZ0209QSZZ	AB	DJ	N	C	CCD harness protect sheet A	CCD ﾊｰﾈｽ保護ﾏｲﾗｰ A
62	LPFTF0004QSZZ	AB	DJ	N	C	Winder flange	巻取りﾌﾗﾝｼﾞ
63	PSHEZ0418QSZZ	AC	DJ	N	C	Optical FR front sheet	光学 FR 前ﾏｲﾗｰ
64	LX-BZ0039FCZZ	AB	DD		C	Screw(4×4)	ﾋﾞｽ
66	PSHEZ0420QSZZ	AC	DJ	N	C	OP harness protect sheet	OP ﾊｰﾈｽ保護ﾏｲﾗｰ
67	PSHEZ0426QSZZ	AB	DJ	N	C	OP harness protect sheet B	OP ﾊｰﾈｽ保護ﾏｲﾗｰ B
70	PTPE-0051QSZZ	AC	DJ	N	C	OP harness fixing tape	OP ﾊｰﾈｽ固定ﾃｰﾌﾟ
71	PSHEZ0273QSZZ	AB	DJ		C	CCD harness sheet	CCD ﾊｰﾈｽﾏｲﾗｰ
72	PSHEZ0217QSZZ	AC	DJ		C	CCD harness protect sheet B	CCD ﾊｰﾈｽ保護ﾏｲﾗｰ B
79	PTPE-0050QSZZ	AA	DJ	N	C	Core fixing tape	ｺｱ固定ﾃｰﾌﾟ
80	LPLTM0314QSZZ	AC	DJ	N	C	Wire ixer plate	ﾜｲﾔｰ支持板
81	DHAi-0332QSZZ	AE	DJ	N	C	CL harness	CL ﾊｰﾈｽ
82	RiNV-0001QSZZ	AX	FG	N	B	Inverter	ｲﾝﾊﾞｰﾀ
83	LFiX-0023QSZZ	AC	DJ	N	C	Harness fixer plate	ﾊｰﾈｽ押え板
85	MSLi-0138FCZZ	AC	DJ		E	Slider	ｽﾗｲﾀﾞｰ
86	MSPRP2825FCZZ	AC	DJ		C	Mirror spring	ﾐﾗｰﾊﾞﾈ
87	PCUSF0334FCZZ	AP	EQ		C	Mirror cushion	ﾐﾗｰｸｯｼｮﾝ
88	PCUSU0203FCZZ	AE	DS		C	Cushion	防振ｸｯｼｮﾝ
89	PMiR-0164FCZZ	AP	EQ		B	1st mirror	第 1 ﾐﾗｰ
90	PREFL0005QSZZ	AH	DX	N	C	Lamp reflector	ﾗﾝﾌﾟﾘﾌﾚｸﾀｰ
91	RLMPD0023QSZZ	AZ	FQ	N	B	Lamp	ｶﾞﾗｽ蛍光ﾗﾝﾌﾟ
92	LDAiU0030QSZZ	AS	EQ	N	C	Lamp base	ﾗﾝﾌﾟﾍﾞｰｽ
93	XEBSF30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
96	TLABZ4335FCZZ	AB	DJ		D	High pressure cautions label	高圧注意ﾗﾍﾞﾙ
97	PREFL0006QSZZ	AK	DX	N	C	Sub reflector	ｻﾌﾞﾘﾌﾚｸﾀｰ
⚠ 501	CREFL0005RS51	BH	HC	N	E	Copy lamp unit	ｺﾋﾟｰﾗﾝﾌﾟﾕﾆｯﾄ

4 光学ﾕﾆｯﾄ (Optical unit)



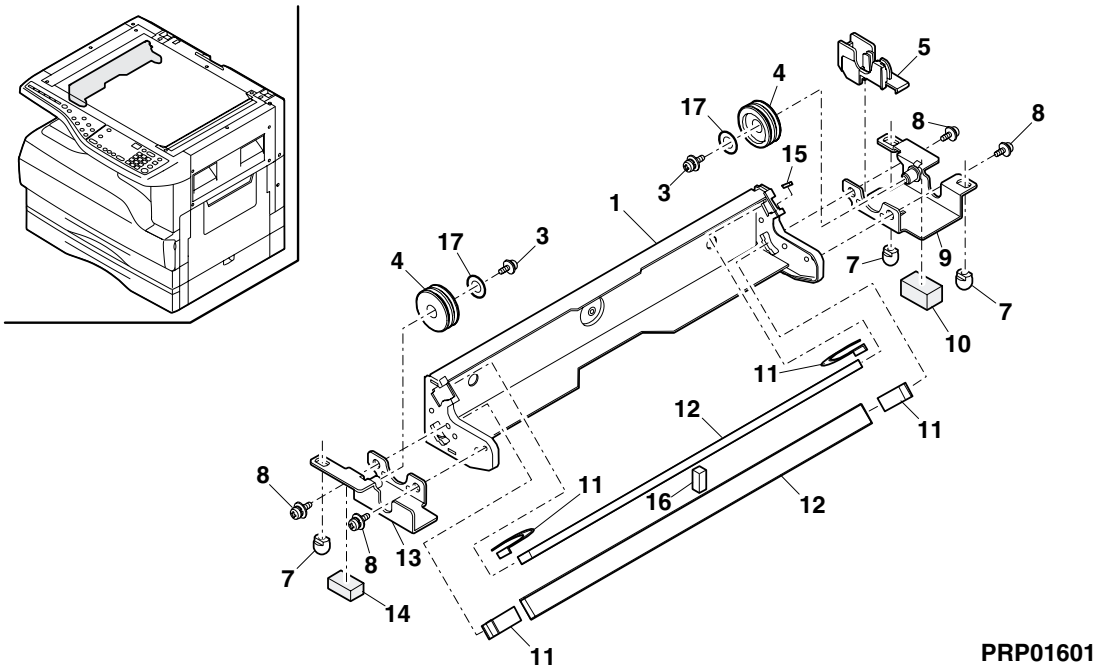
5 第 2.3 ﾐﾗｰﾕﾆｯﾄ (2nd,3rd mirror unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	LHLDZ0044QSZ2	AN	EG	N	C	2nd,3rd mirror holder	第 2.3 ﾐﾗｰﾎﾙﾀﾞｰ
3	XBPSD40P06KS0	AA	DD		C	Screw(4×6KS)	ﾋﾞｽ
4	NPLYZ0017QSZZ	AE	DS		C	W pulley	W ﾌﾟｰﾘｰ
5	LHLDZ0013QSZZ	AD	DJ		C	CL guide holder	CL ｶﾞｲﾄﾞﾎﾙﾀﾞｰ
7	MSLi-0138FCZZ	AC	DJ		E	Slider	ｽﾗｲﾀﾞｰ
8	LX-BZ0335FCZZ	AA	DD		C	Screw(4×6)(Red)	ﾋﾞｽ
9	CPLTM0156QS02	AH	DX		C	Pulley fixing plate R	ﾌﾟｰﾘｰ取付板 R
10	PCUSS0009QSZZ	AA	DJ		C	MB-B cushion R	MB-B ｸｯｼｮﾝ R
11	LFiX-0284FCZZ	AC	DD		C	2nd,3rd mirror fixing plate F	第 2.3 ﾐﾗｰ押え板 F
13	CPLTM0155QS02	AH	DX		C	Pulley fixing plate F	ﾌﾟｰﾘｰ取付板 F
14	PCUSS0201FCZZ	AA	DD		C	MB-B cushion	MB-B ｸｯｼｮﾝ
15	PSPAZ0011QSZZ	AD	DJ		C	Mirror spacer	ﾐﾗｰｽﾍﾟｰｻｰ
16	PMLT-0084QSZZ	AB	DJ	N	C	2nd,3rd mirror cushion	第 2.3 ﾐﾗｰﾓﾙﾄ
17	LX-WZ0001GCZZ	AB	DD		C	Washer	ﾜｯｼｬ
	(Unit)						
901	CMiR-0008QS35	BB	GD	N	E	2nd,3rd mirror unit	第 2.3 ﾐﾗｰﾕﾆｯﾄ

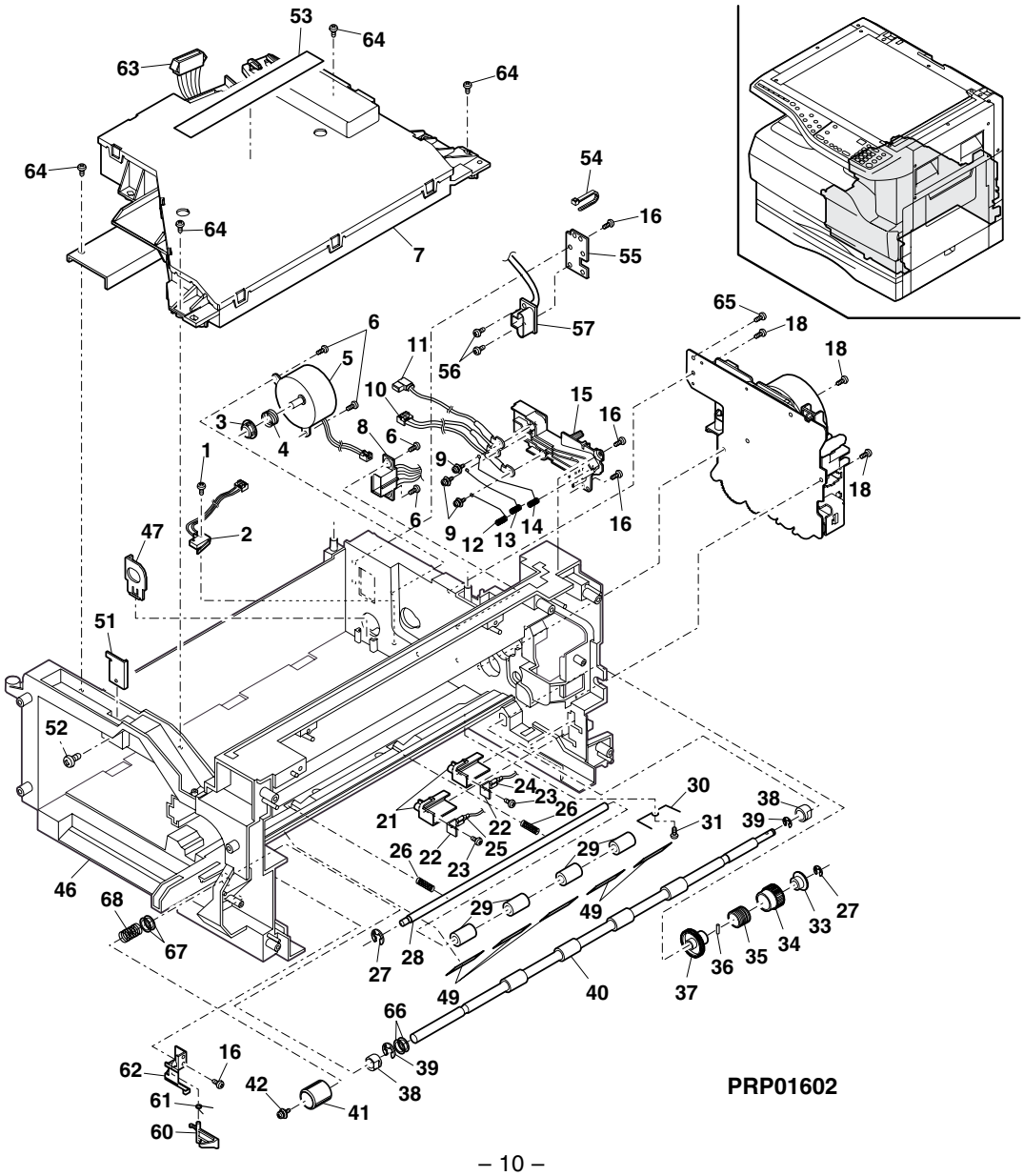
6 中間ﾌﾚｰﾑﾕﾆｯﾄ (Middle frame unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	XEPSD23P12000	AA	DD		C	Screw(2.3×12)	ﾋﾞｽ
2	CSW-M0007RS55	AS	EZ	N	E	Inter lock switch unit	ｲﾝﾀｰﾛｯｸｽｲｯﾁﾕﾆｯﾄ
3	NCPL-0007QSZ1	AC	DJ	N	C	Hopper coupling	ﾎｯﾊﾟｰｶｯﾌﾟﾘﾝｸﾞ
4	MSPRC0024QSZZ	AA	DJ		C	Hopper spring	ﾎｯﾊﾟｰﾊﾞﾈ
5	RMOTD0035QSZZ	AN	EG	N	B	Toner motor	ﾄﾅｰﾓｰﾀｰ
6	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
7	DUNTK0343RSZZ	BV	RB	N	E	LSU unit	LSU ﾕﾆｯﾄ
8	DHAi-0322QSZZ	AS	EQ	N	C	DEV harness	DEV ﾊｰﾈｽ
9	XBPSC30P06ES0	AA	DD		C	Screw(3×6ES)	ﾋﾞｽ
10	CHAi-0109RS52	AN	EG	N	E	GB-MCFB harness unit	GB-MCFB ﾊｰﾈｽﾕﾆｯﾄ
11	CHAi-0107RS52	AM	EG	N	E	MC harness unit	MC ﾊｰﾈｽﾕﾆｯﾄ
12	MSPRD0104QSZZ	AC	DJ		C	HV terminal spring (case)	高圧端子ﾊﾞﾈ(ｹｰｽ)
13	MSPRD0103QSZZ	AC	DJ		C	HV terminal spring (grid)	高圧端子ﾊﾞﾈ(ｸﾞﾘｯﾄﾞ)
14	MSPRD0102QSZZ	AC	DJ		C	HV terminal spring	高圧端子ﾊﾞﾈ(ﾉｺﾊﾞ)
15	LHLDZ0038QSZ1	AH	DX		C	High voltage terminal holder	高圧端子ﾎﾙﾀﾞｰ
16	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
18	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
21	LHLDZ0039QSZZ	AE	DJ	N	C	High voltage terminal holder TC	高圧端子ﾎﾙﾀﾞｰ TC
22	LPLTM0067QSZZ	AC	DJ	N	C	TC terminal plate	TC 端子板
23	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
24	DHAi-0106QSZ2	AK	DX	N	C	BC harness	BC ﾊｰﾈｽ
25	DHAi-0108QSZ1	AH	DX	N	C	TC harness	TC ﾊｰﾈｽ
26	MSPRC0278QSZZ	AC	DJ		C	PS pressure spring	PS 加圧ﾊﾞﾈ
27	XRESP40-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
28	NSFTZ0021QSZ1	AL	EB		C	PS roller shaft	PS 従動ﾛｰﾗｼｬﾌﾄ
29	NKOM-0001QSZZ	AD	DJ		C	PS collar(φ12)	PS ｺﾛ
30	MSPRD0139QSZZ	AB	DJ		C	PS earth spring	PS ｱｰｽﾊﾞﾈ
31	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
33	LBOSZ1508FCZZ	AG	DX		C	Cam boss A2	ｶﾑﾎﾞｽ A2
34	PPiPP0174FCZZ	AC	DJ		C	Pipe C	ﾊﾟｲﾌﾟ C
35	MSPRC0106QSZZ	AF	DS		C	PS clutch spring	PS ｸﾗｯﾁﾊﾞﾈ
36	XPSSJ20-07000	AA	DD		C	Spring pin(φ2-7)	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
37	NGERH0062QSZZ	AK	DX		C	Clutch gear(32T)	ｸﾗｯﾁｷﾞﾔｰ
38	NBRGC0018QSZZ	AD	DJ		C	Bearing E	軸受 E
39	XRESP60-08000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
40	NROLP0032QSZ2	AT	EZ		C	PS trnsport roller	PS 搬送ﾛｰﾗｰ
41	JKNBZ0010QSZZ	AD	DJ	N	C	PS knob	PS ﾉﾌﾞ
42	XBPSD30P10KS0	AB	DD		C	Screw(3×10KS)	ﾋﾞｽ
46	LFRM-0024QSZ3	BC	GJ		C	Middle frame	中間ﾌﾚｰﾑ
47	LPiNS0301FCZZ	AD	DJ		C	DV guide pin (AB series)	DV ｶﾞｲﾄﾞﾋﾟﾝ
	LPiNS0300FCZZ	AD	DJ		C	DV guide pin (Inch series)	DV ｶﾞｲﾄﾞﾋﾟﾝ
49	PSHEZ0056QSZZ	AC	DJ		C	PS rear guide sheet	PS 後ｶﾞｲﾄﾞｼｰﾄ
51	LANGT0003QSZ1	AC	DJ		C	SRU fixing angle	SRU 取付けｱﾝｸﾞﾙ
52	XHBS230P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
53	TCAUH0018QSZZ	AE	DJ	N	D	Laser caution label (Japan only)	ﾚｰｻﾞｰ注意ﾗﾍﾞﾙ
	TCAUH0007QSZZ	AD	DJ		D	Laser caution label (Other Countries)	ﾚｰｻﾞｰ注意ﾗﾍﾞﾙ
54	LBNDJ0013FCZ1	AE	DJ		C	Cable band (Except Japan)	ｹｰﾌﾞﾙﾊﾞﾝﾄﾞ
55	LPLTM0149QSZZ	AD	DJ		C	Connector fixing plate (Except Japan)	ｺﾈｸﾀｰ取付け板
56	LX-BZ0020QSZZ	AB	DD		C	Screw (Except Japan)	ﾄﾞﾛｱｰｺﾈｸﾀｰ段ﾋﾞｽ
57	DHAi-0333QSZZ	AL	EB	N	C	SRU harness (Except Japan)	SRU ﾊｰﾈｽ
60	LSTPP0014QSZZ	AC	DJ		C	Right door stopper	右ﾄﾞｱｽﾄｯﾊﾟｰ
61	MSPRD0298QSZZ	AD	DJ	N	C	Stopper spring	ｽﾄｯﾊﾟｰﾊﾞﾈ
62	LHLDZ0099QSZZ	AC	DJ	N	C	Stopper holder	ｽﾄｯﾊﾟｰﾎﾙﾀﾞｰ
63	DHAi-0321QSZZ	AH	DX	N	C	LSU harness	LSU ﾊｰﾈｽ
64	XEPSD30P14X00	AA	DD		C	Screw(3×14)	ﾋﾞｽ
65	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
66	LX-WZ0198FCZZ	AA	DD		C	Poly slider(T=0.13)	ﾎﾟﾘｽﾗｲﾀﾞｰ
67	LX-WZ1003HCZZ	AA	DD		C	Poly slider(T=0.5)	ﾎﾟﾘｽﾗｲﾀﾞｰ

5 第 2.3 ﾐﾗｰﾕﾆｯﾄ (2nd,3rd mirror unit)



6 中間ﾌﾚｰﾑﾕﾆｯﾄ (Middle frame unit)



7 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
2	CHLDZ0035RS51	BH	GX		E	MC holder unit	MC ﾎﾙﾀﾞｰﾕﾆｯﾄ
3	UCLEZ0009QSZ1	AQ	EQ		C	Cleaning blade	ｸﾘｰﾆﾝｸﾞﾌﾞﾚｰﾄﾞ
4	CFRM-0021RS61	AY	FQ	N	E	Process sub unit (Other Countries)	ﾌﾟﾛｾｽｻﾌﾞﾕﾆｯﾄ
5	PSEL-0130QSZZ	AF	DS		C	Seal R	ﾓｹｯﾄ R
6	PSEL-0129QSZZ	AF	DS		C	Seal F	ﾓｹｯﾄ F
9	NCPL-0003QSZZ	AC	DJ		C	Screw coupling	ｽｸﾘｭｰｶｯﾌﾟﾘﾝｸﾞ
12	LHLDZ0098QSZ2	AD	DJ		C	Pawl holder (Japan,SRS,SRSSC,Indonesia)	爪ﾎﾙﾀﾞｰ
	LHLDZ0045QSZZ	AD	DJ		C	Starling holder (Except Japan,SRS,SRSSC,Indonesia)	ｽﾀｰﾘﾝｸﾞﾎﾙﾀﾞｰ
13	LX-WZ0329FCZZ	AB	DD		C	Washer (Except Japan,SRS,SRSSC,Indonesia)	CRU 用ﾜｯｼｬ
14	LX-RZ0001QSZZ	AB	DD		C	Starling(ϕ5)	ｽﾀｰﾘﾝｸﾞ
16	PRNGF0106FCZ2	AC	DJ		C	Starling N2 (Japan,SRS,SRSSC,Indonesia)	ｽﾀｰﾘﾝｸﾞ N2
18	NBRGP0299FCZZ	AC	DJ		C	CL bearing(M5)	CL 軸受
19	NSFTZ0020QSZZ	AL	EB		C	Transport screw	搬送ｽｸﾘｭｰ
20	PMLT-0018QSZ1	AC	DJ		C	Transport screw cushion	搬送ｽｸﾘｭｰﾓﾙﾄ
21	PCAPH0009QSZZ	AC	DJ	N	C	Toner pipe cap	ﾄﾅｰﾊﾟｲﾌﾟｷｬｯﾌﾟ
22	NSFTZ0019QSZZ	AE	DJ	N	C	Transport pipe screw	搬送ﾊﾟｲﾌﾟｽｸﾘｭｰ
23	PSPAZ0696FCZZ	AC	DJ		C	P cap spacer	P ｷｬｯﾌﾟｽﾍﾟｰｻｰ
24	PPiPP0005QSZZ	AM	EG	N	C	Toner pipe	ﾄﾅｰﾊﾟｲﾌﾟ
25	NGERH0039QSZZ	AE	DS		C	Transport pipe gear(14T)	搬送ﾊﾟｲﾌﾟｷﾞﾔｰ
26	MSPRC0045QSZZ	AA	DJ		C	Toner pipe spring	ﾄﾅｰﾊﾟｲﾌﾟﾊﾞﾈ
27	PSHT-0004QSZ1	AC	DJ		C	Toner pipe shutter	ﾄﾅｰﾊﾟｲﾌﾟｼｬｯﾀｰ
28	NGERH0036QSZZ	AC	DJ		C	Transport screw gear(30T)	搬送ｽｸﾘｭｰｷﾞﾔｰ
29	NGERH0038QSZZ	AC	DJ		C	Transport pipe gear(15T)	搬送ﾊﾟｲﾌﾟｷﾞﾔｰ
30	NGERH0037QSZZ	AC	DJ		C	Idle gear(26T)	ｱｲﾄﾞﾙｷﾞﾔｰ
31	LFiX-0007QSZ1	AE	DJ		C	Drum fixing plate B	ﾄﾞﾗﾑ固定板 B
32	PCOVP0093QSZZ	AE	DS	N	C	Drum cover	ﾄﾞﾗﾑｶﾊﾞｰ
35	PSHEP0135QSZ1	AB	DJ		C	MC guide sheet R	MC ｶﾞｲﾄﾞｼｰﾄ R
501	CFRM-0021RS6D	BG	GN	N	E	Process frame unit (Other Countries)	ﾌﾟﾛｾｽﾌﾚｰﾑﾕﾆｯﾄ

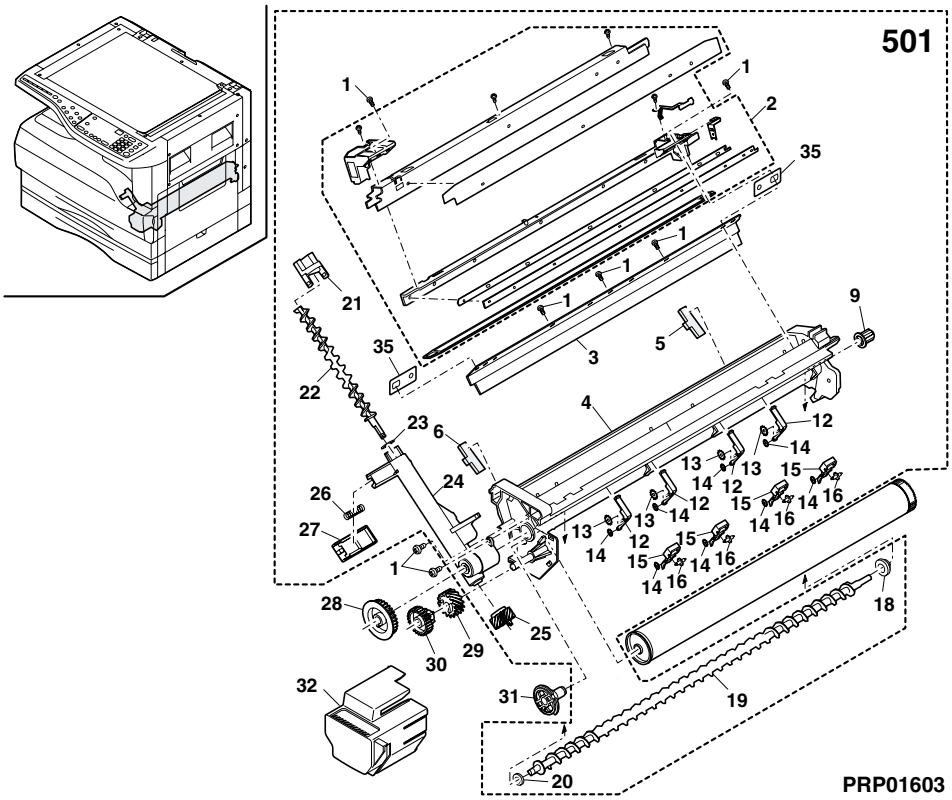
8 現像ｶｰﾄﾘｯｼﾞﾕﾆｯﾄ (DV cartridge unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PGiDM0088QSZZ	AP	EQ	N	D	Upper toner guide	ﾄﾅｰｶﾞｲﾄﾞ上
2	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
3	LX-BZ0027QSZZ	AD	DJ	N	C	DV fixing screw	DV ﾋﾞｽ
4	PGiDM0089QSZZ	AQ	EQ	N	D	Lower toner guide	ﾄﾅｰｶﾞｲﾄﾞ下
5	PSEL-0065QSZ1	AA	DJ	N	C	TG seal LUAR	TG ｼｰﾙ LUAR
6	PSEL-0066QSZ1	AC	DJ	N	C	TG seal LRAR	TG ｼｰﾙ LRAR
7	PSEL-0067QSZ4	AG	DX	N	C	TG seal LDAR	TG ｼｰﾙ LDAR
8	PSEL-0105QSZZ	AA	DJ	N	C	TN seal FR	TN ｼｰﾙ FR
9	PSHEP0262QSZZ	AC	DJ	N	C	DV-UND sheet	DV-UND ｼｰﾄ
10	XBBSD40P10000	AA	DD		D	Screw(4×10)	ﾋﾞｽ
11	PCOVP0072QS12	AH	DX	N	D	DV cover	DV ｶﾊﾞｰ
12	PMLT-0002YSZ1	AC	DJ	N	C	DV TH cushion	DV TH ﾓﾙﾄ
13	PMLT-0005YSZZ	AB	DJ	N	C	DV side cushion lower	DV ｻｲﾄﾞﾓﾙﾄ L
14	PBOX-0001YS13	AM	EG	N	C	DV box	DV ﾎﾞｯｸｽ
15	NROLP0072QSZ1	AP	EQ	N	C	MX roller	MX ﾛｰﾗｰ
16	PMLT-0006YSZZ	AB	DJ	N	C	DV side cushion R	DV ｻｲﾄﾞﾓﾙﾄ R
17	NBRGC0020QSZZ	AH	DX	N	C	Bearing	DMX 軸受
18	NGERH0002YSZZ	AD	DJ	N	C	DV gear(28T)	DV ｷﾞﾔｰ
19	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
20	NGERH0001YSZZ	AD	DJ	N	C	DV idle gear(20T)	DV ｱｲﾄﾞﾙｷﾞﾔｰ
21	NBRGC0021QSZZ	AD	DJ	N	C	DID bearing	DID ﾍﾞｱﾘﾝｸﾞ
22	XRESP50-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
23	NGERH0145QSZ1	AD	DJ	N	C	DV gear(18T)	DV ｷﾞﾔｰ
24	PSHEP0035YSZZ	AB	DJ	N	C	DV side sheet N	DV ｻｲﾄﾞｼｰﾄ N
26	NROLM0071QSZZ	AZ	FX	N	C	MG roller	MG ﾛｰﾗｰ
27	LPLTM0002YSZ2	AP	EQ	N	C	Doctor reinforce plate	ﾄﾞｸﾀｰ補強板
28	LPLTM0001YSZZ	AN	EG	N	C	Doctor	ﾄﾞｸﾀｰ
29	XBPBZ30P03000	AB	DD		C	Screw(3×3)	ﾋﾞｽ
30	LHLDZ0001YSZZ	AD	DJ	N	C	Bearing holder	軸受ﾎﾙﾀﾞｰ
31	RDTCM0016QSZZ	AZ	FQ	N	B	ATC sensor	ATC ｾﾝｻｰ
32	XUBUZ30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
33	MSPRK0001YSZZ	AB	DJ	N	C	Bias spring	ﾊﾞｲｱｽﾊﾞﾈ
34	LHLDR0072QSZZ	AC	DJ	N	C	MG holder	MG ﾎﾙﾀﾞｰ
35	XBPSD30P06KS0	AA	DD		C	Screw(3×6)	ﾋﾞｽ
36	LPLTM6022FCZZ	AC	DJ		C	M4 plate	M4 ﾌﾟﾚｰﾄ
37	PSEL-0063QSZZ	AA	DJ	N	C	DVS seal LRU	DVS ｼｰﾙ LRU
38	PCOVP0080QSZZ	AE	DS	N	C	DV cover F	DV ｶﾊﾞｰ F
39	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
41	XRESP30-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
42	PSEL-0001YSZ1	AE	DS	N	C	DV blade	DV ﾌﾞﾚｰﾄﾞ
43	PSEL-0074QSZZ	AC	DJ		C	TG seal BU	TG ｼｰﾙ BU
46	PSPAP0036QSZZ	AC	DJ		C	TGU spacer FL	TGU ｽﾍﾟｰｻｰ FL
47	PSHEP0324QSZZ	AC	DJ		C	DVB sheet	DVB ｼｰﾄ
48	PSEL-0114QSZZ	AC	DJ		C	Seal F	ｼｰﾙ F
49	PSEL-0115QSZZ	AD	DJ		C	Seal F2	ｼｰﾙ F2
50	DHAi-0313QSZZ	AH	DX	N	C	Sensor harness	ｾﾝｻｰﾊｰﾈｽ

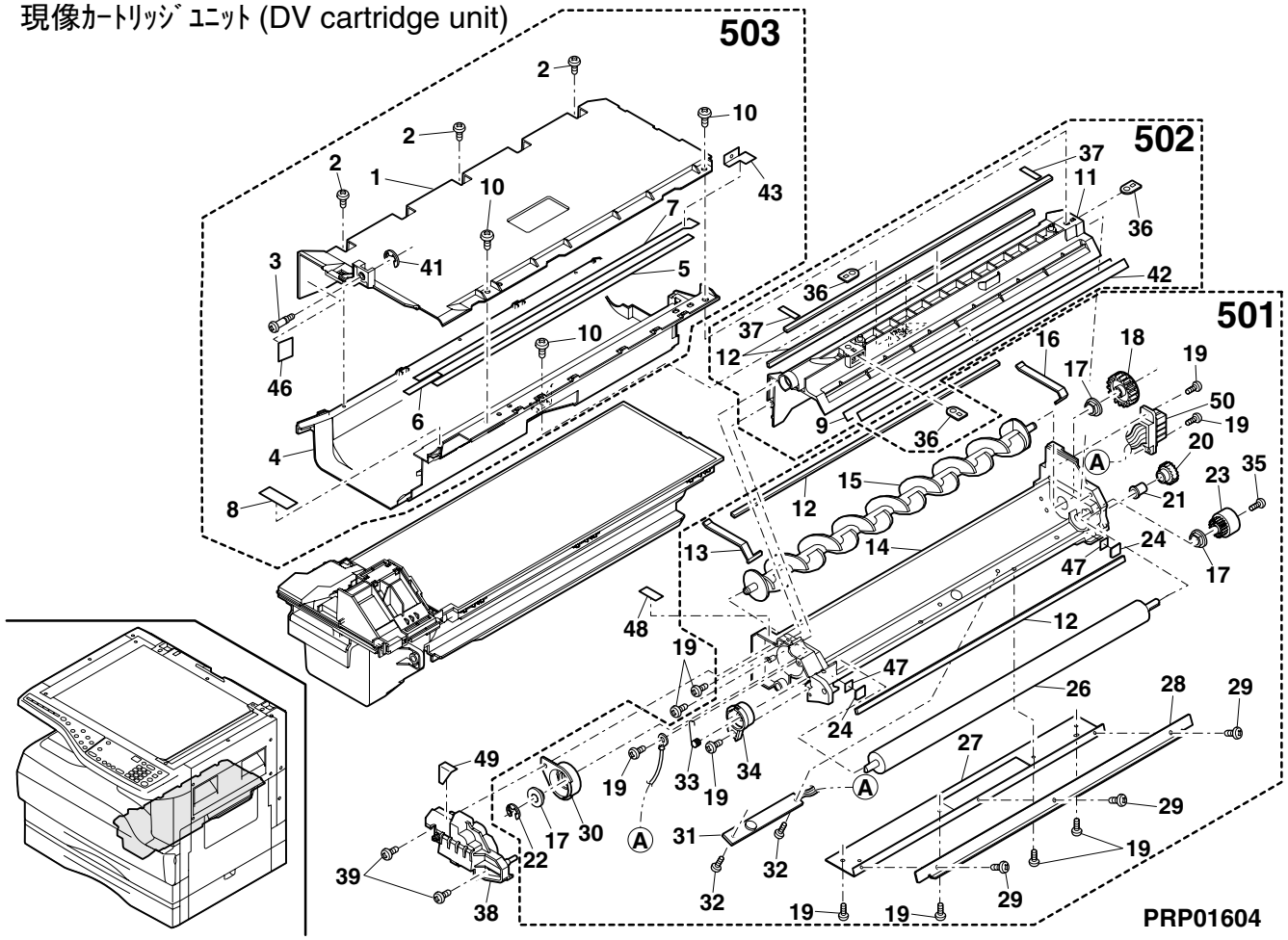
8 現像ｶｰﾄﾘｯｼﾞ ﾕﾆｯﾄ (DV cartridge unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
501	CBOX−0001JS5E	BM	HR	N	E	DV box unit	DV box ﾕﾆｯﾄ
502	CCOVP0072RS53	AR	EQ	N	E	DV cover unit	DV ｶﾊﾞｰﾕﾆｯﾄ
503	CGiDM0089RS51	AZ	FX	N	E	TN guide unit	TN ｶﾞｲﾄﾞﾕﾆｯﾄ

7 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)



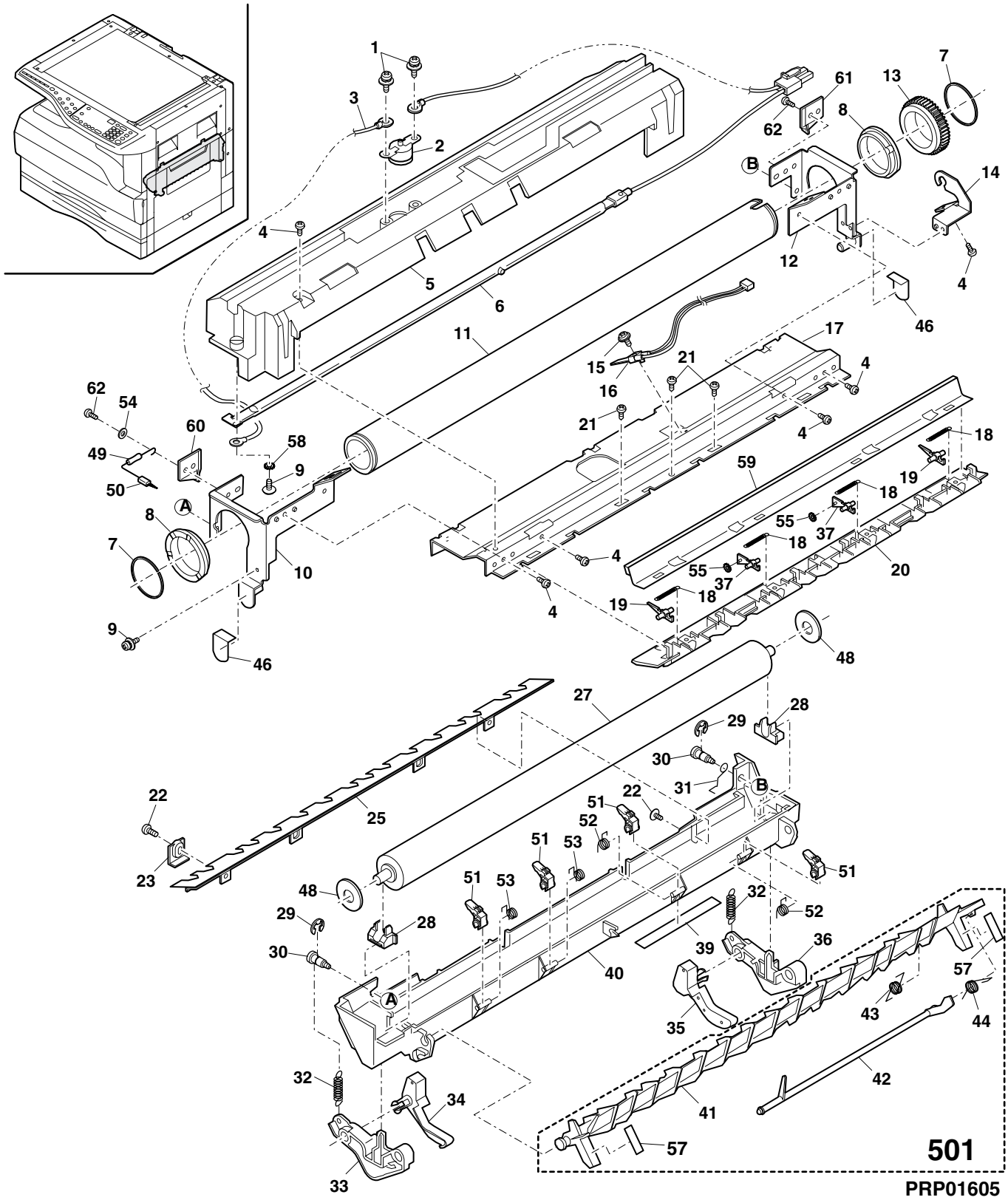
8 現像ｶｰﾄﾘｯｼﾞ ﾕﾆｯﾄ (DV cartridge unit)



9 定着ﾕﾆｯﾄ (Fusing unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	XBPSD30P06KS0	AA	DD		C	Screw(3×6KS)	ﾋﾞｽ
2	RTHM-0001QSZZ	AM	EG		B	Thermostat	ｻｰﾓｽﾀｯﾄ
3	DHAi-0184QSZ1	AE	DS	N	C	Fusing harness	定着ﾊｰﾈｽ
4	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
5	PCOVP0029QSZ3	AT	EZ	N	C	Fusing cover	定着ｶﾊﾞｰ
⚠ 6	RLMPU0014QSZZ	BA	FX		B	Heater lamp(100V series)	ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0018QSZZ	BA	FX	N	B	Heater lamp(110V series)	ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0015QSZZ	BA	FX		B	Heater lamp(120V series)	ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0016QSZZ	BA	FX		B	Heater lamp(230V series)	ﾋｰﾀｰﾗﾝﾌﾟ
7	LSTPP0116FCZZ	AA	DD		C	Roller stopper	ﾛｰﾗｰｽﾄｯﾊﾟｰ A2
8	NBRGP0567FCZZ	AG	DX		C	Fusing bearing	定着軸受
9	XBPSD30P08KS0	AA	DD		C	Screw(3×8KS)	ﾋﾞｽ
10	CFRM-0017QS01	AH	DX		C	Fusing frame F	定着ﾌﾚｰﾑ F
11	NROLi0030QSZZ	BC	GJ		C	Upper heat roller	上ﾋｰﾄﾛｰﾗｰ
12	CFRM-0018QS01	AH	DX		C	Fusing frame R	定着ﾌﾚｰﾑ R
13	NGERH0540FCZ3	AD	DJ		B	Fusing gear(45T)	定着ｷﾞﾔｰ
14	LHLDZ0034QSZZ	AF	DS		C	Lamp holder	ﾗﾝﾌﾟﾎﾙﾀﾞｰ
15	XBPSD30P10KS0	AB	DD		C	Screw(3×10KS)	ﾋﾞｽ
16	RDTCT0005QSZ1	AN	EQ	N	B	Thermistor	ｻｰﾐｽﾀ
17	LPLTM0050QSZZ	AM	EG		C	Fusing joint plate	定着連結板
18	MSPRT0304QSZZ	AD	DJ	N	C	Upper pawl pressure spring (Japan only)	上爪加圧ﾊﾞﾈ
	MSPRT0086QSZZ	AB	DJ	N	C	Upper pawl pressure spring (Except Japan)	上爪加圧ﾊﾞﾈ
19	PTME-0007GCZ1	AG	DS		C	Separator pawl 4A (Japan only)	剥離爪 4A
	PTME-0020GCZ1	AF	DS	N	C	Separator pawl (Except Japan)	剥離爪
20	PGiDM0034QSZ3	AL	EB	N	C	Fusing rear paper guide	定着後ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
21	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
22	XBBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
23	LPLTP0051QSZZ	AD	DJ		C	PG fixing plate	PG 固定板
27	NROLR0031QSZ1	BC	GJ		C	Pressure roller	圧着ﾛｰﾗｰ
28	NBRGP0260FCZ1	AD	DS		C	Pressure bearing N	圧着軸受 N
29	XRESP30-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
30	LX-BZ0013QSZ1	AC	DD		C	Screw(3×7)	段ﾋﾞｽ
31	MSPRP0087QSZZ	AC	DJ		C	PG earth spring	PG ｱｰｽﾊﾞﾈ
32	MSPRT0303QSZZ	AD	DJ	N	C	Pressure spring B	加圧ﾊﾞﾈ B
33	MLEVP0018QSZ1	AF	DS		C	Fusing pressure lever F	FU 圧力ﾚﾊﾞｰ F
34	MLEVP0019QSZ3	AE	DJ		C	Release lever F	圧解ﾚﾊﾞｰ F
35	MLEVP0020QSZ3	AE	DJ		C	Release lever R	圧解ﾚﾊﾞｰ R
36	MLEVP0017QSZ1	AF	DS		C	Fusing pressure lever R	FU 圧力ﾚﾊﾞｰ R
37	PTME-0020GCZ1	AF	DS	N	C	Separator pawl	剥離爪
39	TLABH0061QSZZ	AE	DJ		D	High temperature caution label (Japan only)	高温注意ﾗﾍﾞﾙJ
	TLABH0062QSZZ	AE	DJ		D	High temperature caution label (Other Countries)	高温注意ﾗﾍﾞﾙ
40	LFRM-0036QSZZ	AT	EZ		D	Fusing lower frame	定着下ﾌﾚｰﾑ
41	LPLTP0060QSZ3	AM	EG	N	C	Reverse gate	反転ｹﾞｰﾄ
42	MLEVP0026QSZ2	AE	DJ	N	C	DMC actuator	DMC ｱｸﾁｭｴｰﾀ
43	MSPRD0117QSZZ	AB	DJ	N	C	Rotation spring	回転ﾊﾞﾈ
44	MSPRD0118QSZ1	AB	DJ	N	C	Actuator return spring	ｱｸﾁｭｴｰﾀ復帰ﾊﾞﾈ
46	PSHEZ0105QSZZ	AC	DJ		C	Fusing sheet	定着ｽｳｪｰﾄﾞ
48	LX-WZ0313FCZZ	AA	DD		C	Washer	ﾜｯｼｬ
49	VRH-ST2HB157K	AD	DJ		C	Resistor(1/2W 150MΩ±10%)	ﾃｲｺｳ
50	PBRSR0004QSZ1	AD	DJ	N	C	Discharger brush	除電ﾌﾞﾗｼ
51	PTME-0014QSZZ	AK	DX		C	Lower separator pawl	下剥離爪
52	MSPRD0122QSZZ	AB	DJ		C	Separator pawl spring R	剥離爪ﾊﾞﾈ R
53	MSPRD0121QSZZ	AB	DJ		C	Separator pawl spring F	剥離爪ﾊﾞﾈ F
54	XWHSD30-05070	AA	DD		C	Washer	ﾜｯｼｬ
55	LX-WZ0001QSZZ	AC	DD		C	Separator pawl washer (Except Japan)	剥離爪ﾜｯｼｬ
57	TLABH0364QSZZ	AA	DJ	N	D	Green label	ｸﾞﾘｰﾝﾗﾍﾞﾙ
58	LX-WZ7021SCZZ	AA	DD		C	Washer	菊ﾜｯｼｬ
59	CPLTM0255QS01	AS	EQ		C	FU felt fixing plate	ﾌｪﾙﾄ取付板
62	XHBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
501	CPLTP0060RS52	BU	NN		E	Reverse gate unit	反転ｹﾞｰﾄﾕﾆｯﾄ
	(Unit)						
901	DUNTW0327RS11	BV	RB	N	E	Fusing unit(100V series)	定着ﾕﾆｯﾄ
	DUNTW0327RSZZ	BV	RB	N	E	Fusing unit(120V series)	定着ﾕﾆｯﾄ

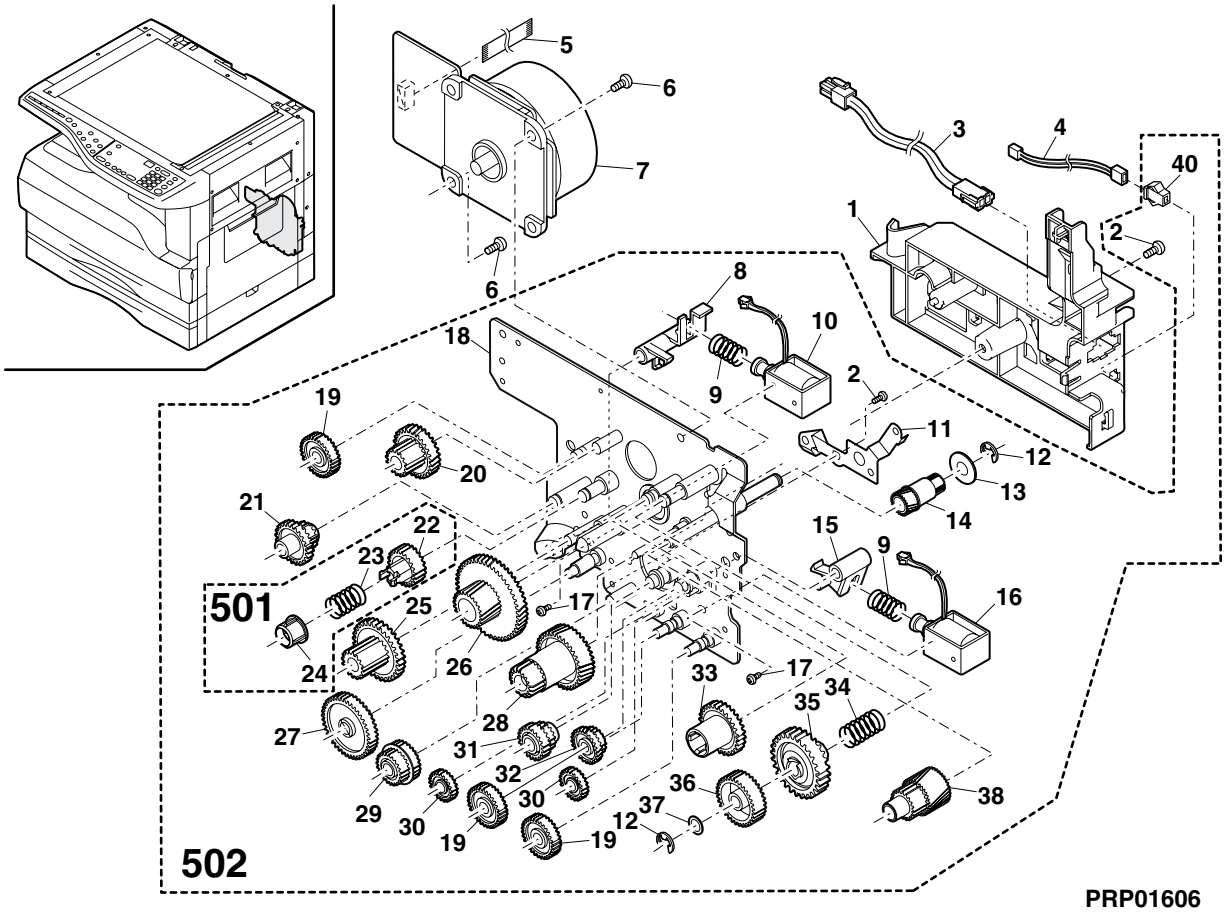
9 定着ﾕﾆｯﾄ (Fusing unit)



10 メイン駆動ユニット (Main driving unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	PGiDM0104QSZZ	AK	DX	N	C	Harness guide	ハーネスガイド
2	XHBSD30P08000	AA	DD		C	Screw(3×8)	ビス
3	DHAi-0110QSZ1	AL	EB	N	C	HL harness	HL ハーネス
4	DHAi-0327QSZZ	AD	DJ	N	C	HND SOL harness	HND SOL ハーネス
5	DHAi-0323QSZZ	AC	DJ	N	C	Main motor harness	メインモーターハーネス
6	XBBSD40P08000	AA	DD		C	Screw(4×8)	ビス
7	RMOTP0044QSPZ	BH	GX	N	B	Main motor	メインモーター
8	PTME-0032QSZZ	AD	DJ	N	C	Roller pawl	半月ローラー爪
9	MSPRC1318FCZ1	AA	DJ		C	Spring B	手差しスプリング B
10	RPLU-0009QSZ1	AM	EG	N	B	Solenoid CSA	ソレノイド CSA
11	LPLTM0048QSZZ	AF	DS		C	Drive earth plate	駆動アース板
12	XRESP40-06000	AA	DD		C	E type ring [AR-200M/AR-160M/AR-M160/AR-5220]	E リング
13	LX-WZ0002QSZZ	AB	DD		C	PO belt washer [AR-200M/AR-160M/AR-M160/AR-5220]	PO ベルトワッシャ
14	NGERH0053QSZZ	AD	DJ		C	Gear(25/18T) [AR-200M/AR-160M/AR-M160/AR-5220]	ギヤー
15	PTME-0012QSZZ	AC	DJ		C	PS clutch pawl	PS クラッチ爪
16	RPLU-0008QSZ1	AM	EG	N	B	Solenoid PS	ソレノイド PS
17	XBBSD30P04000	AA	DD		C	Screw(3×4)	ビス
18	CPLTM0047QS02	BA	FX		C	Main drive plate SIMP [AR-200M/AR-160M/AR-M160/AR-5220]	メイン駆動板 SIMP
	CPLTM0047QS03	AZ	FQ	N	C	Main drive plate DUP [AR-M205]	メイン駆動板 DUP
19	NGERH0010QSZZ	AD	DJ		C	Gear(28T)	ギヤー
20	NGERH0009QSZZ	AD	DJ		C	Gear(46/16T)	ギヤー
21	NGERH0014QSZZ	AD	DJ		C	Gear(30/15T)	ギヤー
22	NGERH0011QSZZ	AD	DJ	N	C	MG gear	MG ギヤー
23	MSPRC2132FCZ1	AA	DJ		C	MG roller spring	MG ローラースプリング
24	NCPL-0004FCZZ	AB	DD		C	Coupling B	カップリング B
25	NGERH0052QSZZ	AE	DJ		C	Gear(38/18T)	ギヤー
26	NGERH0007QSZZ	AH	DX		C	Gear(68/26T)	ギヤー
27	NGERH0057QSZZ	AE	DJ		C	Gear(41T)	ギヤー
28	NGERH0008QSZ3	AL	EB		C	Gear(55/19T)	ギヤー
29	NGERH0059QSZZ	AD	DJ		C	Gear(23/27T)	ギヤー
30	NGERH0012QSZZ	AE	DS		C	Gear(20T)	ギヤー
31	NGERH0058QSZZ	AF	DS		C	Gear(21/17T)	ギヤー
32	NGERH0013QSZZ	AG	DX		C	Gear(31/17T)	ギヤー
33	NGERH0016QSZZ	AD	DJ		C	Coupling gear(34T)	カップリングギヤー
34	MSPRC0081QSZZ	AB	DJ		C	HT ratchet spring	HT ラチェットバネ
35	NGERH0055QSZZ	AE	DJ		C	Ratchet gear(44T)	ラチェットギヤー
36	NGERH0056QSZZ	AE	DJ		C	Ratchet gear(33T)	ラチェットギヤー
37	LX-WZ0314FCZZ	AA	DD		C	Poly slider	ポリスライダー
38	NGERH0054QSZZ	AD	DJ		C	Gear(33/20T)	ギヤー
40	QCNCM0999FCZZ	AC	DJ		C	I/F connector	中継コネクター
501	CGERH0011RS51	AE	DS		E	MG gear unit	MG ギヤーユニット
502	CPLTM0047RS76	BE	GN	N	E	Driving sub unit [AR-200M/AR-160M/AR-M160/AR-5220]	駆動サブユニット
	CPLTM0047RS77	BE	GN	N	E	Driving sub unit [AR-M205]	駆動サブユニット
	(Unit)						
901	CPLTM0047RS56	BN	HV	N	E	Driving unit(Without No.5) [AR-200M/AR-160M/AR-M160/AR-5220]	駆動ユニット (No.5 除く)
	CPLTM0047RS57	BN	HV	N	E	Driving unit(Without No.5) [AR-M205]	駆動ユニット (No.5 除く)

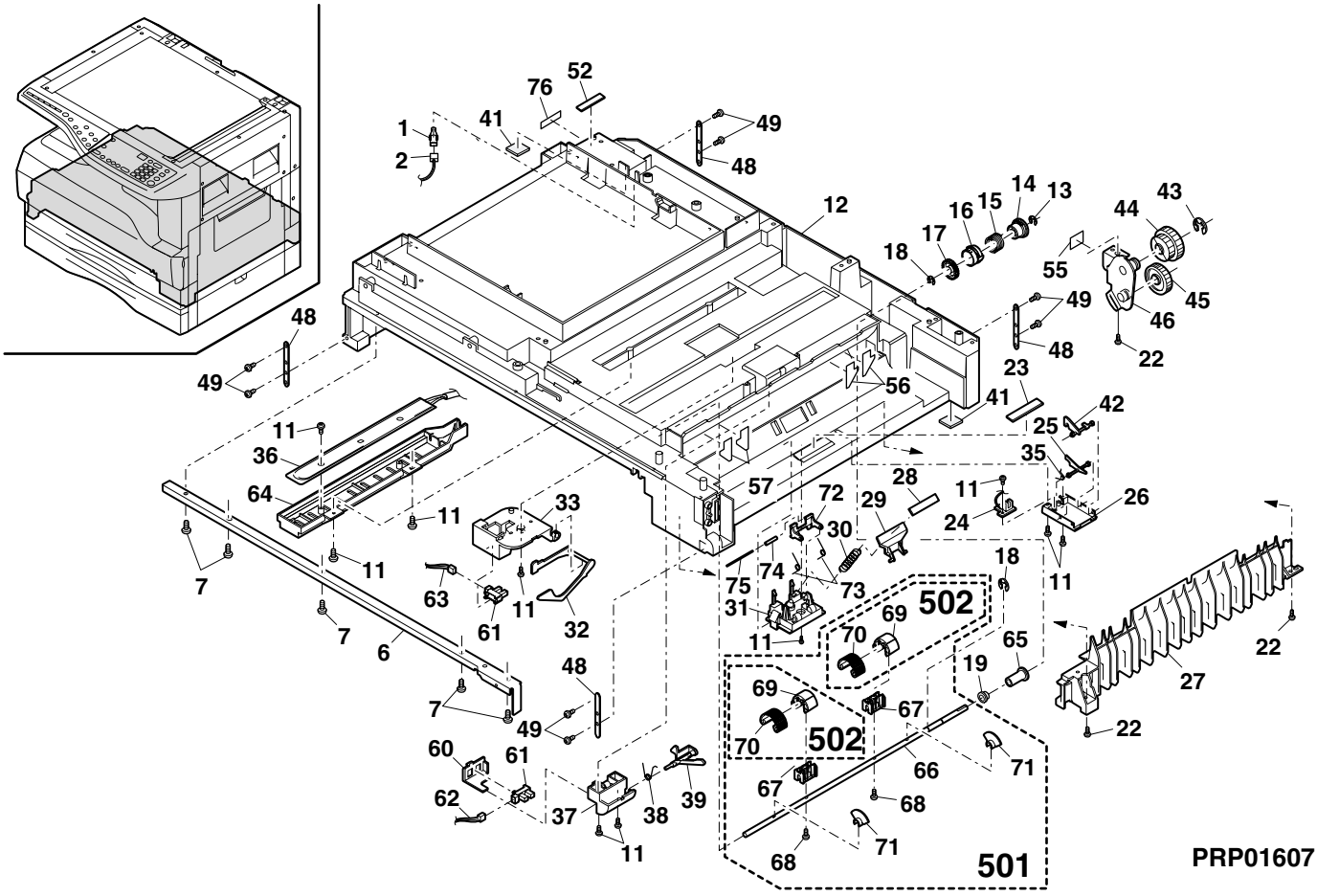
10 ﾒｲﾝ駆動ﾕﾆｯﾄ (Main driving unit)



11 台板ユニット 1 (Base plate unit 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	QSW-B0017QSZZ	AF	DS		B	Tray detect switch	ﾄﾚｲ検知ｽｲｯﾁ
2	DHAi-0315QSZZ	AD	DJ	N	C	Tray SW harness	ﾄﾚｲ検知 SW ﾊｰﾈｽ
6	LPLTM0065QSZZ	AL	EB		C	Base reinforce plate F	台板補強板 F
7	XEPSD40P12000	AA	DD		C	Screw(4×12)	ﾋﾞｽ
11	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
12	GDAi-0002QSE1	BF	GN	N	C	Base plate	台板
13	XRESP40-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
14	LBOSZ1031FCZZ	AC	DJ		C	Clutch boss	ｸﾗｯﾁﾎﾞｽ
15	MSPRC0161QSZZ	AF	DS		C	Clutch spring	ｸﾗｯﾁｽﾌﾟﾘﾝｸﾞ
16	PPiPP0006QSZZ	AD	DJ	N	C	Clutch sleeve	ｸﾗｯﾁｽﾘｰﾌﾞ
17	NGERH0060QSZZ	AH	DX	N	C	Clutch gear(34T)	ｸﾗｯﾁｷﾞﾔｰ
18	XRESP50-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
19	NBRGP0007QSZZ	AD	DJ	N	C	Bearing(φ6)	軸受
22	XEBSD40P12000	AA	DD		C	Screw(4×12)	ﾋﾞｽ
23	PSHEZ0133QSZZ	AD	DJ		C	Paper feeding sheet	給紙用ｼｰﾄ
24	CPWBF0147QSE4	AL	EB	N	E	Manual paper feeding sensor PWB	手差しｾﾝｻｰ基板
25	MLEVP0023QSZZ	AE	DS		C	MF sensor actuator	MF ｾﾝｻｰｱｸﾁｭｴﾀｰ
26	PCOVP0033QSZ1	AF	DJ	N	C	Manual feed sensor cover	手差しｾﾝｻｰｶﾊﾞｰ
27	LRALP0014QSEZ	AM	EG	N	C	Base plate rail R	台板ﾚｰﾙ R
28	PSHEZ0378QSZZ	AG	DX		C	Sheet	ｼｰﾄ
29	LPLTP0348QSZZ	AC	DJ	N	C	Pressure plate	圧着板
30	MSPRC0301QSZZ	AD	DJ	N	C	Pressure plate spring	圧着板ﾊﾞﾈ
31	PFTA-0018QSZZ	AE	DS	N	C	Pressure plate cover	圧着板蓋
32	MLEVP0024QSZZ	AF	DS		C	Sensor lever ACT	ｾﾝｻｰﾚﾊﾞｰ ACT
35	MSPRD0233QSZ1	AC	DJ		C	MF actuator spring	MF ｱｸﾁｭｴｰﾀﾊﾞﾈ
36	RHET-0010QSZZ	AQ	EQ	N	B	Dry heater (Japan only)	除湿ﾋｰﾀｰ
37	LHLDZ0100QSZZ	AD	DJ	N	C	PS holder	PS ﾎﾙﾀﾞｰ
38	MSPRD0300QSZZ	AD	DJ	N	C	PS front actuator spring	PS 前ｱｸﾁｭｴｰﾀﾊﾞﾈ
41	GLEGG0064FCZZ	AC	DJ		C	Rubber foot	ｺﾞﾑ足
42	MLEVP0044QSZZ	AE	DS		C	MF sensor actuator 2	MF ｾﾝｻｰｱｸﾁｭｴｰﾀ 2
43	XRESP70-08000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
44	NGERH0078QSZZ	AE	DJ	N	C	Joint gear(39/33T)	2ND 連結ｷﾞﾔｰ
45	NGERH1169FCZZ	AF	DS		C	2ND Joint gear	2ND 連結ｷﾞﾔｰ
46	CPLTM0114QS01	AG	DX	N	B	Joint gear fixing plate	2ND 連結ｷﾞﾔ取付板
48	LPLTM0112QSZZ	AE	DJ		C	Adjustment plate [AR-200M/AR-M205]	接合板
49	XEBSE40P14000	AA	DD		C	Screw(4×14) [AR-200M/AR-M205]	ﾋﾞｽ
52	LPLTM0125QSZZ	AD	DJ		C	Blind plate	目隠し板
55	PSPAZ0024QSZZ	AB	DJ	N	C	2nd joint spacer	2ND 連結ｽﾍﾟｰｻｰ
56	PSHEZ0187QSZZ	AB	DJ		C	PS guide sheet R [AR-M205]	PS ｶﾞｲﾄﾞｼｰﾄ R
57	PSHEZ0186QSZZ	AB	DJ		C	PS guide sheet F [AR-M205]	PS ｶﾞｲﾄﾞｼｰﾄ F
60	PCOVP0091QSZZ	AC	DJ	N	C	PS sensor cover	PS ｾﾝｻｰｶﾊﾞｰ
61	VHPGP1S73P+-1	AF	DS		B	Photo transistor	ﾌｫﾄﾄﾗﾝｼﾞｽﾀｰ
62	DHAi-0318QSZZ	AE	DJ	N	C	Pin harness	Pin ﾊｰﾈｽ
63	DHAi-0316QSZZ	AE	DJ	N	C	CAS EMP harness	CAS EMP ﾊｰﾈｽ
64	PCOVP0097QSZZ	AH	DX	N	C	Dry cover (Japan only)	除湿ｶﾊﾞｰ
65	PCLR-0010QSZZ	AC	DJ	N	C	Collar	ｶﾗｰ
66	NSFTZ0066QSZZ	AK	DX	N	C	Roller shaft	ﾛｰﾗｰｼｬﾌﾄ
67	LHLDR0095QSZZ	AD	DJ	N	C	Paper feed roller holder	給紙ﾛｰﾗｰﾎﾙﾀﾞｰ
68	XEBSE30P12000	AA	DD		C	Screw(3×12)	ﾋﾞｽ
69	LBRCR0011QSZZ	AD	DJ	N	C	Paper feed roller bracket	給紙ﾛｰﾗｰﾌﾞﾗｹｯﾄ
70	PGUMM0013QSZZ	AG	DX	N	C	Paper feed roller rubber	給紙ﾛｰﾗｰｺﾞﾑ
71	PCLR-0011QSZZ	AC	DJ	N	C	Roller color	ﾛｰﾗｰｶﾗｰ
72	LBRC-0012QSZZ	AD	DJ	N	C	Collar bracket	ﾌﾞﾗｹｯﾄ
74	NKOM-0009QSZZ	AC	DJ	N	C	Manual paper collar	手差しｺﾛ
75	NSFTZ0064QSZZ	AD	DJ	N	C	Roller shaft	ﾛｰﾗｰｼｬﾌﾄ
76	TLABH0024ESZZ	AK	DX		D	AC plug cautions label (Japan only)	AC ﾌﾟﾗｸﾞ注意ﾗﾍﾞﾙ
501	CSFTZ0066RS72	AW	FG	N	E	Paper feeding shaft unit	給紙ｼｬﾌﾄﾕﾆｯﾄ
502	CGUMM0013RS51	AN	EG	N	E	Paper feed roller rubber unit	給紙ﾛｰﾗｰｺﾞﾑﾕﾆｯﾄ

11 台板ﾕﾆｯﾄ 1 (Base plate unit 1)



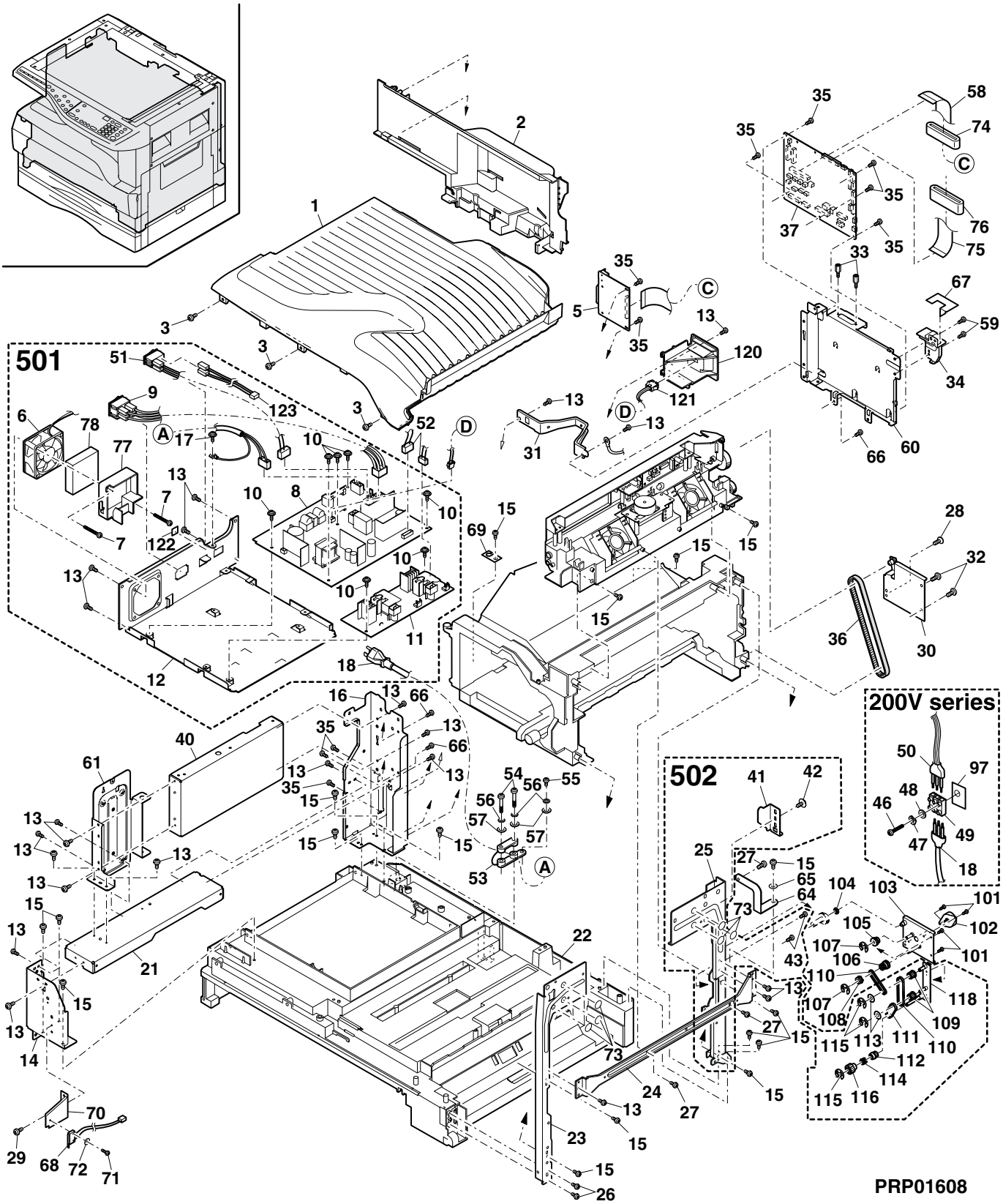
12 台板ﾕﾆｯﾄ 2 (Base plate unit 2)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	LSOU-0036QSZZ	BA	FX	N	D	Delivery tray	排紙ﾄﾚｲ
2	GCAB-0069QSZZ	AT	EZ	N	D	Delivery rear cover	排紙後ｶﾊﾞｰ
3	XEBSE40P10000	AA	DD		C	Screw(4×10)	ﾋﾞｽ
5	CPWBF0114QSE3	BA	FX	N	E	GDI PWB	GDI 基板
6	NFANP0010QSZZ	AS	EQ	N	C	PS fan	PS ﾌｧﾝ
⚠	RDENC0010QS12	BN	LE	N	E	Low voltage power supply unit (100V series)	低圧電源ﾕﾆｯﾄ
⚠	RDENC0010QSZZ	BN	LE	N	E	Low voltage power supply unit (120V series)	低圧電源ﾕﾆｯﾄ
⚠	RDENC0010QS13	BN	LE	N	E	Low voltage power supply unit (127V series)	低圧電源ﾕﾆｯﾄ
⚠	RDENC0010QS11	BQ	LP	N	E	Low voltage power supply unit (230V series)	低圧電源ﾕﾆｯﾄ
9	DUNTK0347RSZZ	AW	FG	N	E	AC switch unit	AC ｽｲｯﾁﾕﾆｯﾄ
10	XBPSD30P08KS0	AA	DD		C	Screw(3×8KS)	ﾋﾞｽ
⚠	RDENC0008QS11	BG	GT	N	E	High voltage power supply unit	高圧電源ﾕﾆｯﾄ
12	LPLTM0082QSZ7	AF	EQ	N	C	PS PWB fixing plate	PS PWB 取付け板
13	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
14	LFRM-0067QSZZ	AK	EB	N	C	Corner frame FL	ｺｰﾅｰﾌﾚｰﾑ FL
15	XEBSD40P12000	AA	DD		C	Screw(4×12)	ﾋﾞｽ
16	LFRM-0068QSZZ	AQ	EQ	N	C	Corner frame RL	ｺｰﾅｰﾌﾚｰﾑ RL
17	XBPSN40P06K00	AA	DD		C	Screw(4×6K)	ﾋﾞｽ
⚠	QPLGA0001QCZZ	AN	EQ		B	3Pin plug(16A/250V) (Special Country)	3ﾋﾟﾝﾌﾟﾗｸﾞ
⚠	QPLGA0003QCZZ	AN	EQ		B	Plug(13A/250V) (SRS/SRSSC,Indonesia)	ﾌﾟﾗｸﾞ
	PHOG-1023CCZZ	AB	DD		C	Plug protector (South Africa,India,SRH)	ﾌﾟﾗｸﾞ用保護
⚠	QPLGA4171CCZZ	AN	EG		B	Plug (South Africa,India)	ﾌﾟﾗｸﾞ
⚠	QPLGA0009QCZZ	AS	EQ		B	Plug(220V) (SRH)	ﾌﾟﾗｸﾞ
⚠	QPLGA0002QCZZ	AN	EQ		B	Plug(125V) (Saudi Arabia)	ﾌﾟﾗｸﾞ
⚠	QACCJR614QCPZ	AW	FG	N	B	AC cord(100V)	AC ｺｰﾄﾞ
⚠	QACCDR614QCPZ	AS	EQ	N	B	AC cord(120V)	AC ｺｰﾄﾞ
⚠	QACCER624QCPZ	AW	FG	N	B	AC cord(230V) (Europe,Lebanon,Iran,Nigeria,West Africa,Algeria, Egypt,Jordan,Syria,Tunisia,Morocco,STCL)	AC ｺｰﾄﾞ
⚠	QACCBR421QCPZ	AZ	FQ	N	B	AC cord(230V) (U.Kingdom, Saudi Arabia,Yemen,Oman,Qatar.Lebanon,Kuwait,UAE)	AC ｺｰﾄﾞ
⚠	QACCR7421QCZZ	AY	FQ		B	AC cord(10A/250V) [AR-5220(LAG4)]	AC ｺｰﾄﾞ
⚠	DHAi-0167QSZZ	BA	FX		B	AC cord(127V) (Saudi Arabia)	AC ｺｰﾄﾞ
21	LPLTM0308QSZZ	AL	EB	N	C	Corner frame reinforce plate	ｺｰﾅｰﾌﾚｰﾑ補強板
22	GDAi-0002QSE1	BF	GN	N	C	Base plate	台板
23	LFRM-0025QSZ3	AH	DX		C	Corner flame FR	ｺｰﾅｰﾌﾚｰﾑ FR
24	LPLTM0099QSZ2	AK	DX	N	C	Corner frame R reinforce plate	ｺｰﾅｰﾌﾚｰﾑ R 補強板

12 台板ユニット 2 (Base plate unit 2)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
25	LFRM-0026QSZ2	AN	EG	N	C	Corner frame RR コーナーフレーム RR
26	XHBSD30P14000	AA	DD		C	Screw(3×14) ビス
27	XEBSD30P10000	AA	DD		C	Screw(3×10) ビス
28	LX-BZ0700FCZZ	AA	DD	N	C	Screw(4×12) [AR-200M/AR-160M/AR-M160/AR-5220] ビス
29	XHBSD30P08000	AA	DD		C	Screw(3×8) ビス
30	CPLTM0071QS02	AL	EB	N	C	Drive joint plate [AR-200M/AR-160M/AR-M160/AR-5220] 駆動連結板
31	LPLTM0347QSZZ	AG	DS	N	C	Net box fixing plate NET BOX 取付け板
32	XHBSD30P08000	AA	DD		C	Screw(3×8) [AR-200M/AR-160M/AR-M160/AR-5220] ビス
33	LX-BZ0031QSZZ	AC	DD		C	Screw 六角ビス
34	LANGT0014QSZZ	AF	DS	N	C	MCU PWB fixing plate MCU PWB 取付け板
35	LX-BZ0750FCZZ	AB	DD		C	Screw(3×6) ビス
36	NBLTT0007QSZZ	AH	DX		B	Delivery roller drive belt [AR-200M/AR-160M/AR-M160/AR-5220] 排紙ローラ駆動ベルト
37	CPWBX0128QS34	CA	TV	N	E	MCU PWB [AR-200M] MCU 基板
	CPWBX0128QS36	CA	TV	N	E	MCU PWB [AR-160M] MCU 基板
	CPWBX0128QS31	CA	TR	N	E	MCU PWB [AR-M160] MCU 基板
	CPWBX0128QS32	CA	TV	N	E	MCU PWB [AR-M205] MCU 基板
40	LPLTM0307QSZZ	AL	EB	N	C	Delevery left cover 排紙左カバー
41	LPLTM0309QSZZ	AE	DS	N	C	Optical adjustment plate 光学調整板
42	LX-BZ0039QSZZ	AB	DD	N	C	Screw(4×10) ビス
43	XHBSD30P08000	AA	DD		C	Screw(3×8) [AR-M205] ビス
46	XEBSD30P18000	AA	DD		C	Screw(3×18) (200V series) ビス
47	XWSSD30-07000	AA	DD		C	Washer (200V series) ワッシャ
48	XWHSD30-05080	AA	DD		C	Washer (200V series) ワッシャ
49	QTANN0015FCZZ	AG	DS		C	3P terminal base (200V series) 3P 端子台
50	DHAi-0140QSZ1	AH	DX	N	C	AC harness (200V series) AC ハーネス
51	QSW-C9293QCZZ	AG	DX		B	Dry AC switch (Japan only) 除湿 AC スイッチ
52	DHAi-0320QSZZ	AN	EQ	N	C	PS harness PS ハーネス
53	LFiX-0016FCZZ	AD	DJ		C	AC cord holder AC コード押え板 C
54	XEPSD40P30000	AA	DD		C	Screw(4×30) ビス
55	XEBSD40P12000	AA	DD		C	Screw(4×12) ビス
56	XWSSD40-10000	AA	DD		C	Washer ワッシャ
57	XWHSD40-08100	AA	DD		C	Washer ワッシャ
58	DHAi-0328QSZZ	AH	DX	N	C	GDI-MCU harness GDI-MCU ハーネス
59	XEBSD30P06000	AA	DD		C	Screw(3×6) ビス
60	LPLTM0310QSZZ	AP	EQ	N	C	MCU fixing plate MCU 取付け板
61	LPLTM0306QSZZ	AL	EB	N	C	Optical reinforce plate 光学補強板
64	PSHEZ0135QSZZ	AC	DJ		C	Driving plate sheet [AR-200M/AR-160M/AR-M160/AR-5220] 駆動板シート
65	XWHSD40-08100	AA	DD		C	Washer [AR-200M/AR-160M/AR-M160/AR-5220] ワッシャ
66	XEBSD30P08000	AA	DD		C	Screw(3×8) ビス
67	PSHEZ0421QSZZ	AC	DJ	N	C	MCU edge protect sheet MCU エッジ保護マイラー
68	CSW-M0007RS55	AS	EZ	N	E	Inter lock switch unit インターロックスイッチユニット
69	PSHEZ0408QSZZ	AC	DJ		C	Interlock switch maintenance sheet インターロックスイッチ保持シート
71	XBPSD20P09000	AA	DD		C	Screw(2×9) ビス
72	XWHSD20-04043	AA	DD		C	Washer ワッシャ
73	PSHEZ0109QSZZ	AC	DJ		C	Optical base plate bottom myler B 光学台板底マイラー B
74	RCORF0027QSZZ	AN	EG	N	C	IF FFC core IF FFC コア
75	DHAi-0342QSZZ	AG	DX	N	C	CCD harness CCD ハーネス
76	RCORF0018QSZZ	AR	EQ		C	Ferrite core フェライトコア
77	PDUC-0006QSZZ	AF	DS	N	C	Duct ダクト
101	XHBSD30P08000	AA	DD		C	Screw(3×8) ビス
102	RMOTS0042QSZZ	AT	EZ	N	B	DUP motor [AR-M205] DUP モーター
103	CPLTM0073QS01	AM	EG		B	DUP motor fixing plate ASSY' [AR-M205] DUP モーター取付板 ASSY'
104	NBRGC0529FCZZ	AD	DJ		C	Bearing [AR-M205] 軸受
105	NGERH0065QSZZ	AC	DJ		C	Gear(21-28T) [AR-M205] ギヤー
106	NGERH0064QSZZ	AD	DJ		C	Gear pulley(40T24T) [AR-M205] ギヤプーリー
107	XRESP40-06000	AA	DD		C	E type ring [AR-M205] E リング
108	NGERH0075QSZZ	AC	DJ		C	Gear(20T) [AR-M205] ギヤー
109	NPLYZ0011QSZZ	AC	DJ		C	Pulley [AR-M205] プーリー
110	NBLTT0009QSZZ	AG	DX		C	DUP driving belt(134) [AR-M205] DUP 駆動ベルト
111	NBLTT0008QSZZ	AG	DX		C	DUP roller driving belt [AR-M205] DUP ローラー駆動ベルト
112	NPLYZ0008QSZZ	AC	DJ		C	Pulley(S2M20T) [AR-M205] プーリー
113	PSHEZ0065QSZZ	AB	DJ		C	Pulley flange sheet [AR-M205] プーリーフランジシート
114	MSPRC1315FCZ1	AD	DJ		C	Clutch spring A [AR-M205] 手差しクラッチスプリング A
115	XRESP40-06000	AA	DD		C	E type ring [AR-M205] E リング
116	NGERH0066QSZZ	AD	DJ		C	Gear(17T) [AR-M205] ギヤー
118	CPLTM0103QS01	AG	DX		B	DUP driving idle plate ASSY' [AR-M205] DUP 駆動アイドル板 ASSY'
120	LHLDZ0110QSZZ	AG	DX	N	C	Connector holder コネクターホルダー
121	DHAi-0403QSZZ	AG	DS	N	C	NWAC I/F 1 harness NWAC 中継 1 ハーネス
123	DHAi-0340QSZZ	AH	DX	N	C	DHSW harness (Japan only) DHSW ハーネス
⚠ 501	CDENC0010RS53	BW	RJ	N	E	Power supply unit(Without No.122,123)(100V series) 電源ユニット (No.122,123 除く)
⚠ 501	CDENC0010RS51	BW	RB	N	E	Power supply unit(Without No.122,123)(120V series) 電源ユニット (No.122,123 除く)
⚠ 502	DUNT-0341RSZZ	AV	FG	N	E	Corner frame RR unit [AR-200M/AR-160M/AR-M160/AR-5220] コーナーフレーム RR ユニット
⚠ 502	DUNT-0342RSZZ	AZ	FQ	N	E	Corner frame RR unit [AR-M205] コーナーフレーム RR ユニット

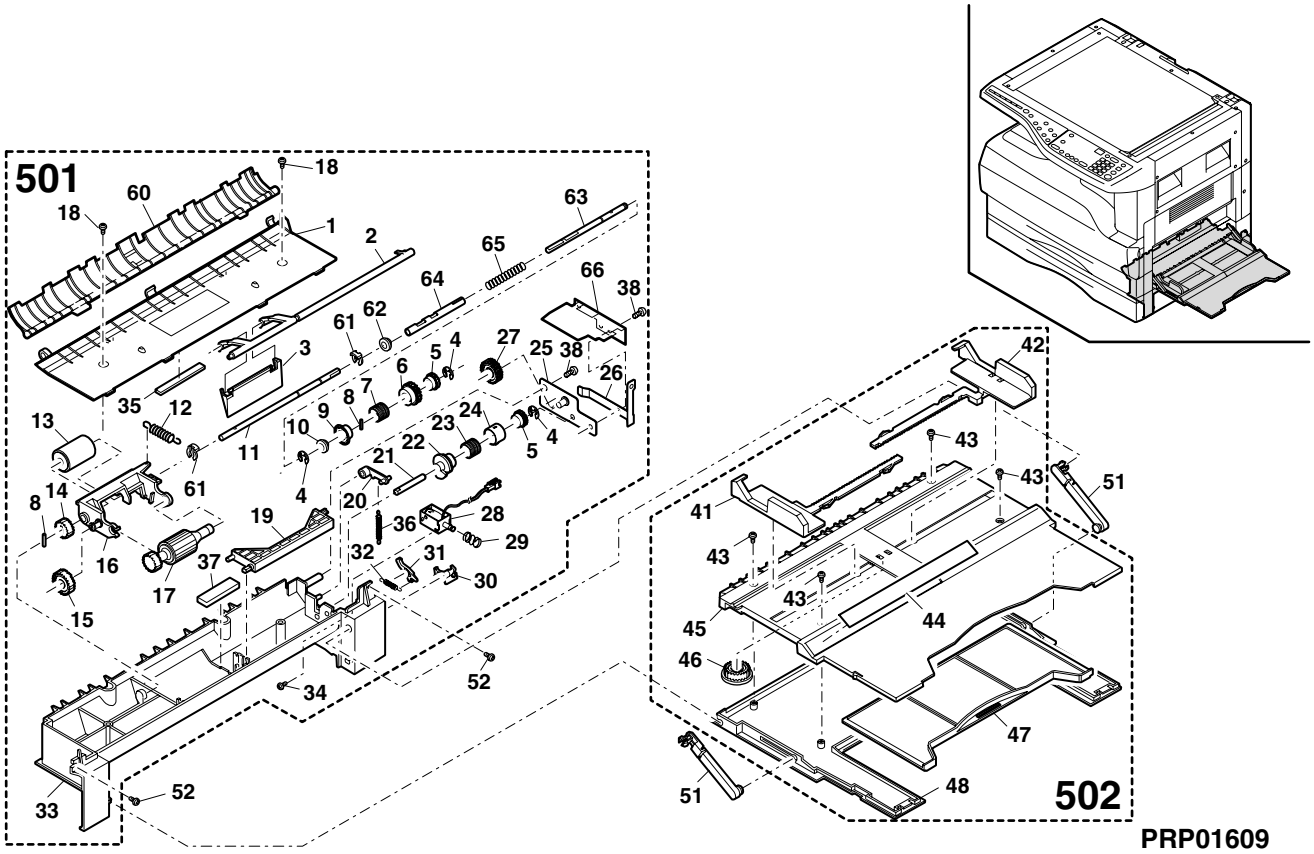
12 台板ユニット 2 (Base plate unit 2)



13 手差しﾏﾙﾁﾕﾆｯﾄ (Manual paper feeding multi unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PCOVP0098QSZZ	AN	EG	N	C	Multi frame cover	ﾏﾙﾁﾌﾚｰﾑｶﾊﾞｰ
2	MARMP0008QSZZ	AH	DX		C	Stopper arm	ｽﾄｯﾊﾟｰｱｰﾑ
3	LPLTP0056QSZ3	AD	DJ		C	Stopper plate	ｽﾄｯﾊﾟｰ板
4	XRESP40-06000	AA	DD		C	E type ring	Eﾘﾝｸﾞ
5	LBOSZ1510FCZZ	AF	DX		C	Cam boss A1	ｶﾑﾎﾞｽA1
6	PPiPP0109FCZZ	AB	DD		C	Pipe A	手差しｸﾗｯﾁｽﾘｰﾌﾞAﾊﾟｲﾌﾟ
7	MSPRC1315FCZ1	AD	DJ		C	Clutch spring A	手差しｸﾗｯﾁｽﾌﾟﾘﾝｸﾞA
8	XPSSJ20-07000	AA	DD		C	Spring pin(φ2-7)	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
9	LBOSZ1508FCZZ	AG	DX		C	Cam boss A2	ｶﾑﾎﾞｽA2
10	LBSHZ0303FCZZ	AC	DJ		C	M bushing C	MﾌﾞｯｼﾝｸﾞC
12	MSPRT0091QSZZ	AC	DJ		C	Roller arm spring	ﾛｰﾗｰｱｰﾑﾊﾞﾈ
13	NROLR0922FCZ2	AR	EQ	N	C	Manual paper feed roller	手差しﾛｰﾗｰ
14	NGERH0495FCZZ	AC	DD		C	Gear(20T)	ｷﾞﾔｰ
15	NGERH0061QSZZ	AD	DJ		C	Gear(24T)	ｷﾞﾔｰ
16	MARMP0009QSZZ	AF	DS		C	Roller arm	ﾛｰﾗｰｱｰﾑ
17	NROLR1267FCZ1	AH	DX	N	C	Manual feed take-up roller	手差し呼込みﾛｰﾗ
18	XEBSE30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
19	MARMP0041QSZZ	AE	DS		C	Cam transmission arm	ｶﾑ伝達ｱｰﾑ
20	MARMP0006QSZZ	AD	DJ		C	Arm	ﾃｺｱｰﾑ
21	NSFTZ0017QSZZ	AG	DS		C	Manual feed cam shaft	手差しｶﾑｼｬﾌﾄ
22	MCAMP0001QSZZ	AF	DS		C	Drive cam	駆動ｶﾑ
23	MSPRC1316FCZ1	AE	DS		C	Clutch spring B	手差しｸﾗｯﾁｽﾌﾟﾘﾝｸﾞB
24	PPiPP0009QSZZ	AD	DJ		C	Cam clutch sleeve	ｶﾑｸﾗｯﾁｽﾘｰﾌﾞ
26	MSPRD0092QSZZ	AE	DJ		C	MF earth spring	手差しｱｰｽSP板
27	NGERH0972FCZZ	AB	DJ		C	Gear(27T)	ｷﾞﾔｰ
28	RPLU-0007QSZ1	AM	EG	N	B	Multi feeding solenoid	ﾏﾙﾁﾌｨｰﾄﾞｿﾚﾉｲﾄﾞ
29	MSPRC1318FCZ1	AA	DJ		C	Spring B	手差しｽﾌﾟﾘﾝｸﾞB
30	PTME-0179FCZZ	AC	DD		C	Manual paper feeding pawl B	手差しﾗｯﾁB
31	PTME-0178FCZZ	AC	DD		C	Manual paper feeding pawl A	手差しﾗｯﾁA
32	MSPRC2175FCZZ	AA	DJ		C	Pawl A spring	爪A ｽﾌﾟﾘﾝｸﾞ
33	LFRM-0020QSE3	AT	EZ	N	C	Multi feed frame	ﾏﾙﾁﾌﾚｰﾑ
34	XBBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
35	PSHEZ0099QSZZ	AC	DJ		C	Vibration proof sheet	防振ｼｰﾄ
36	MSPRT0147QSZZ	AC	DJ		C	Stopper arm spring	ｽﾄｯﾊﾟｰｱｰﾑﾊﾞﾈ
37	PSHEZ0241QSZZ	AB	DJ		C	Vibration proof sheet C	防振ｼｰﾄC
38	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
43	XEBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
44	TLABH0066QSZ2	AE	DJ	N	D	Size graduation label (Japan only)	ｻｲｽﾞﾒﾓﾘﾗﾍﾞﾙ
45	LSOU-0009QSE2	AS	EQ	N	D	Multi feed tray 1-U	ﾏﾙﾁﾄﾚｲ 1-U
46	NGERH0193FCZZ	AB	DD		C	UC manual feed gear	UC手差しｷﾞﾔｰ
47	LSOU-0011QSE1	AL	EB	N	D	Multi feed tray 2	ﾏﾙﾁﾄﾚｲ 2
48	LSOU-0010QSE1	AR	EQ	N	D	Multi feed tray 1-L	ﾏﾙﾁﾄﾚｲ 1-L
51	MARMP0005QSEZ	AD	DJ	N	C	Tray arm	ﾄﾚｲｱｰﾑ
52	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
60	PGiDM0117QSZZ	AH	DX	N	C	Multi frame cover guide	ﾏﾙﾁﾌﾚｰﾑｶﾊﾞｰｶﾞｲﾄﾞ
61	LSTPP0011QSZZ	AC	DJ		C	Stopper	ｽﾄｯﾊﾟｰ
62	LBSHZ0006QSZZ	AC	DJ		C	M bushing 2	Mﾌﾞｯｼﾝｸﾞ 2
64	NCPL-0012QSZZ	AD	DJ	N	C	Manual feed coupling	手差しｶｯﾌﾟﾘﾝｸﾞ
65	MSPRD0302QSZZ	AC	DJ	N	C	Manual feed coupling spring	手差しｶｯﾌﾟﾘﾝｸﾞﾊﾞﾈ
66	PSHEZ0410QSZZ	AC	DJ	N	C	Manual feed protect sheet	手差し保護ﾏｲﾗｰ
501	CFRM-0020RS55	BG	GT	N	E	Manual paper feeding multi unit	手差しﾏﾙﾁﾕﾆｯﾄ
502	CSOU-0009QS35	BA	FX	N	E	Manual feeding tray unit (Japan only)	手差しﾄﾚｲﾕﾆｯﾄ
	CSOU-0009QS34	BA	FX	N	E	Manual paper tray unit (Except Japan)	手差しﾄﾚｲﾕﾆｯﾄ

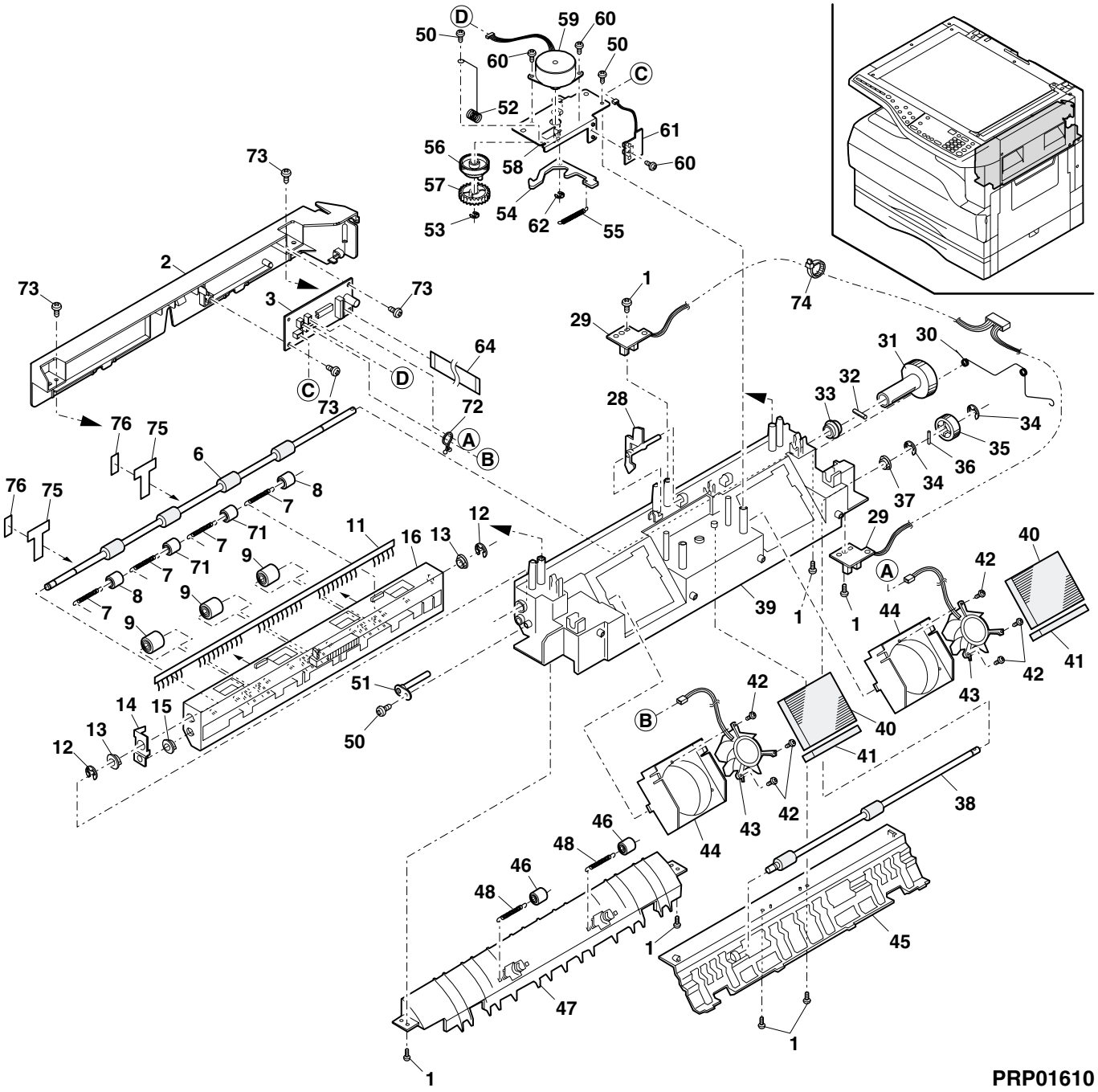
13 手差しﾏﾙﾁﾕﾆｯﾄ (Manual paper feeding multi unit)



14 排紙ﾌﾚｰﾑﾕﾆｯﾄ (Delivery frame unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
2	GCOV-0049QSZ1	AK	EB	N	C	Delivery front side cover	排紙前ｶﾊﾞｰ
3	CPWBF0129QSE1	AQ	EQ	N	E	Delivery interface PWB	排紙中継基板
6	NROLM0103QSZZ	AQ	EQ	N	C	Delivery roller C	排紙ﾛｰﾗｰ C
7	MSPRT0229GCAZ	AC	DJ		C	FU spring R	FU ﾊﾞﾈ R
8	NROLP0034QSZZ	AD	DJ	N	C	Delivery roller	排紙従動ﾛｰﾗｰ
9	NKOM-0002QSZZ	AC	DJ	N	C	Delivery collar	排紙ｺﾛ
11	PBRSR0009QSZ1	AH	DX	N	B	Discharge brush [AR-200M/AR-160M/AR-M160/AR-5220]	除電ﾌﾞﾗｼ
	PBRSR0005QSZZ	AK	EB		B	Discharge brush [AR-M205]	除電ﾌﾞﾗｼ
12	XRESP50-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
13	NBRGC0529FCZZ	AD	DJ		C	Bearing	軸受
14	LPLTM0100QSZ1	AD	DJ	N	C	Delivery earth plate B	排紙ｱｰｽ板 B
15	NBRGY2122SCZZ	AB	DD		B	Transport roller bearing 1	搬送ﾛｰﾗｰﾍﾞｱﾘﾝｸﾞ 1
16	LHLDZ0040QSZ2	AS	EQ	N	C	Delivery roller holder	排紙従動ﾛｰﾗｰﾎﾙﾀﾞｰ
28	MLEVP0106QSZZ	AD	DJ	N	C	Delivery actuator	排紙ｱｸﾁｭｴｰﾀ
29	CPWBF0147QSE2	AP	EQ	N	E	Duplex/P-out sensor PWB	DUP/P-OUT ｾﾝｻｰ基板
30	MSPRD0143QSZ1	AF	DS		C	Delivery earth spring A	排紙ｱｰｽﾊﾞﾈ A
31	NPLYZ0030QSZZ	AE	DJ	N	C	Delivery pulley [AR-200M/AR-160M/AR-M160/AR-5220]	排紙ﾌﾟｰﾘｰ
	NGERH0063QSZZ	AD	DJ		C	Delivery drive gear(30T) [AR-M205]	排紙駆動ｷﾞﾔｰ
32	LPiNS0258FCZZ	AA	DD		C	Spring pin(φ3-8)	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
33	NBRGC0019QSZZ	AD	DJ		C	Bearing(φ6)	軸受
34	XRESP40-06000	AA	DD		C	E type ring [AR-M205]	E ﾘﾝｸﾞ
35	NGERH0070QSZZ	AC	DJ		C	DUP delivery R gear(20T) [AR-M205]	DUP 排紙 R ｷﾞﾔｰ
36	XPSSJ20-10000	AA	DD		C	Spring pin(φ2-10) [AR-M205]	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
37	NBRGY2122SCZZ	AB	DD		B	Transport roller bearing 1 [AR-M205]	搬送ﾛｰﾗｰﾍﾞｱﾘﾝｸﾞ 1
38	NROLP0038QSZZ	AP	EQ		C	DUP delivery roller [AR-M205]	DUP 排紙ﾛｰﾗｰ
39	LFRM-0027QSZ2	AS	EQ	N	C	Delivery frame	排紙ﾌﾚｰﾑ
40	PFiLZ0004QSZZ	AM	EG		B	Ozone filter [AR-160M/AR-M160/AR-M205/AR-5220]	ｵｿﾞﾝﾌｨﾙﾀｰ
	PFiLZ0008QSZZ	AL	EB		B	Ozone filter 20 [AR-200M]	ｵｿﾞﾝﾌｨﾙﾀｰ 20
41	PMLT-0027QSZZ	AC	DJ		C	Cleaning fan cushion	ｸｰﾘﾝｸﾞﾌｧﾝﾓﾙﾄ
42	XEBSD20P06000	AA	DD		C	Screw(2×6)	ﾋﾞｽ
43	NFANP0009QSZZ	AT	EZ	N	B	Cooling fan	ｸｰﾘﾝｸﾞﾌｧﾝ
44	PDUC-0003QSZ1	AG	DX		C	Cleaning fan duct	ｸｰﾘﾝｸﾞﾌｧﾝﾀﾞｸﾄ
45	PGiDM0062QSZ1	AP	EQ	N	C	Delivery upper paper guide 20	排紙上ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ 20
46	NROLP1122FCZZ	AF	DS		C	PS upper roller [AR-M205]	PS 上ﾛｰﾗｰ
47	PGiDM0040QSZ2	AK	DX	N	C	Delivery lower paper guide [AR-160M/AR-M160/AR-M205/AR-5220]	排紙下ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
	PGiDM0063QSZ1	AP	EQ		C	Delivery lower paper guide 20 [AR-200M]	排紙下ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ 20
48	MSPRT0229GCAZ	AC	DJ		C	FU spring R [AR-M205]	FU ﾊﾞﾈ R
50	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
51	CSFTZ0023QS02	AH	DX		C	Shiftier shaft	ｼﾌﾀｰｽﾗｽﾄｼｬﾌﾄ
52	MSPRD0144QSZZ	AC	DJ		C	Delivery earth spring B	排紙ｱｰｽﾊﾞﾈ B
53	XRESP40-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
54	LSTPP0003QSZ1	AC	DJ		C	Shiftier stopper	ｼﾌﾀｰｽﾄｯﾊﾟｰ
55	MSPRT0107QSZZ	AC	DJ		C	Shiftier return spring	ｼﾌﾀｰ復帰ﾊﾞﾈ
56	NGERH0067QSZZ	AD	DJ		C	Shiftier gear(24T)	ｼﾌﾀｰｷﾞﾔｰ
57	NGERH0068QSZ1	AD	DJ		C	Shiftier gear(50T)	ｼﾌﾀｰｷﾞﾔｰ
58	CPLTM0075QS01	AL	EB		C	Shiftier drive plate	ｼﾌﾀｰ駆動板
59	RMOTS0040QSZZ	AR	EQ	N	B	Shiftier motor	ｼﾌﾀｰﾓｰﾀｰ
60	XHBSF30P05000	AA	DD		C	Screw(3×5)	ﾋﾞｽ
61	CPWBF0147QSE3	AL	EB	N	E	Shifter HP sensor PWB	ｼﾌﾀｰ HP ｾﾝｻｰ基板
62	XRESP30-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
64	DHAi-0325QSZZ	AD	DJ	N	C	Delivery tray unit harness	排紙ﾄﾚｲﾕﾆｯﾄﾊｰﾈｽ
71	NROLP0104QSZZ	AC	DJ	N	C	Delivery roller	排紙従動ﾛｰﾗｰ
72	LHLDW0086QSZZ	AB	DJ		C	Holder	ﾎﾙﾀﾞｰ
73	XHBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
74	LBNDJ0013FCZ1	AE	DJ		C	Cable band	ｹｰﾌﾞﾙﾊﾞﾝﾄﾞ
75	PSHEZ0446QSZZ	AB	DJ	N	C	Delivery sheet	排紙ﾏｲﾗｰ
	(Unit)						
901	CFRM-0027RS74	BQ	LP	N	E	Delivery frame unit SIMP [AR-200M]	排紙ﾌﾚｰﾑﾕﾆｯﾄ SIMP
	CFRM-0027RS72	BP	LP	N	E	Delivery frame unit SIMP [AR-160M/AR-M160/AR-5220]	排紙ﾌﾚｰﾑﾕﾆｯﾄ SIMP
	CFRM-0027RS73	BQ	LP	N	E	Delivery frame unit DUP [AR-M205]	排紙ﾌﾚｰﾑﾕﾆｯﾄ DUP

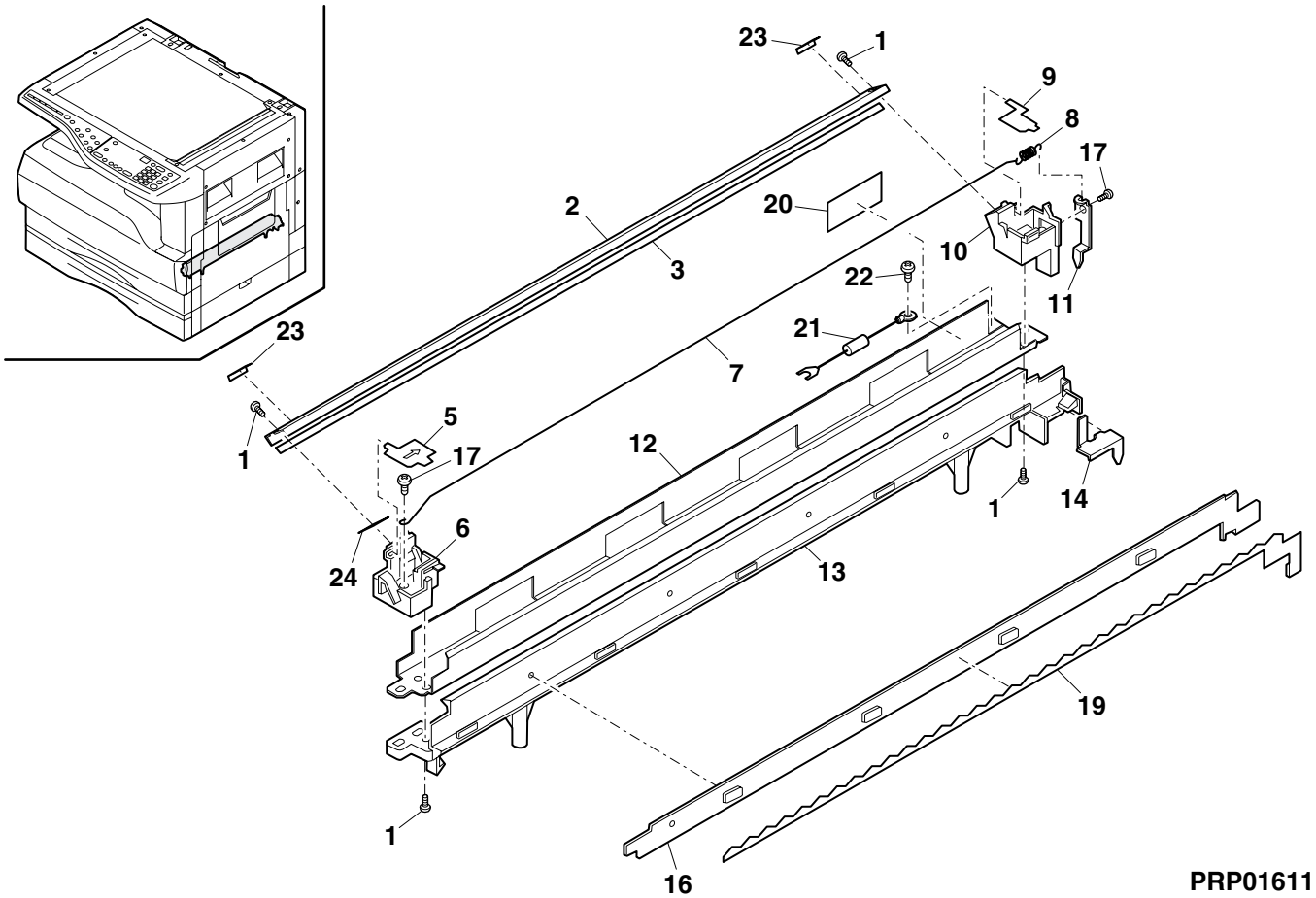
14 排紙ﾌﾚｰﾑﾕﾆｯﾄ (Delivery frame unit)



15 TC ｹｰｽﾕﾆｯﾄ (TC case unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XEBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
2	PGiDH0118QSZZ	AK	DX	N	C	TC front guide	TC 前ｶﾞｲﾄﾞ
3	PSHEP0050QSZ1	AD	DJ	N	C	TC sheet	TC ﾏｲﾗｰ
5	PSHEP0051QSZZ	AB	DJ	N	C	TC cover sheet F	TC ｶﾊﾞｰﾏｲﾗｰ F
6	LHLDZ0030QSZZ	AD	DJ	N	C	TC holder F	TC ﾎﾙﾀﾞｰ F
7	DWiR-0466CSZZ	BG	HC		B	Charger wire	ﾁｬｰｼﾞﾔｰ線
8	MSPRT0513FCZ1	AA	DJ		C	MC tension spring	MC ﾃﾝｼｮﾝﾊﾞﾈ
9	PSHEP0052QSZZ	AB	DJ	N	C	TC cover sheet R	TC ｶﾊﾞｰﾏｲﾗｰ R
10	LHLDZ0032QSZZ	AD	DJ	N	C	TC holder R	TC ﾎﾙﾀﾞｰ R
11	QSLP-0009QSZZ	AD	DJ	N	C	TC electrode plate	TC 電極板
12	PCASZ0013QSZZ	AP	EQ	N	C	TC case	TC ｹｰｽ
13	LHLDZ0031QSZ3	AH	EQ	N	C	Discharge holder	除電ﾎﾙﾀﾞｰ
14	QSLP-0008QSZZ	AD	DJ	N	C	BC electrode plate	BC 電極板
16	PGiDM0032QSZZ	AE	DS	N	C	Separator guide	剥離ｶﾞｲﾄﾞ
17	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
19	PSHEZ0125QSZZ	AE	DS	N	C	Discharger delivery sheet	除電排紙ｼｰﾄ
20	PSHEZ0434QSZZ	AC	DJ	N	C	TC case sheet	TC ｹｰｽﾏｲﾗｰ
21	DUNTK0233QSZZ	CA	TR		E	Resistor unit transfer	抵抗ﾕﾆｯﾄ転写
22	XBPSC30P06K00	AA	DD		C	Screw(3×6K)	ﾋﾞｽ
23	PSHEZ0435QSZZ	AA	DJ	N	C	Guide sheet	ｶﾞｲﾄﾞﾏｲﾗｰ
24	PSPAZ0040QSZZ	AB	DJ	N	C	Front guide spacer	前ｶﾞｲﾄﾞｽﾍﾟｰｻｰ

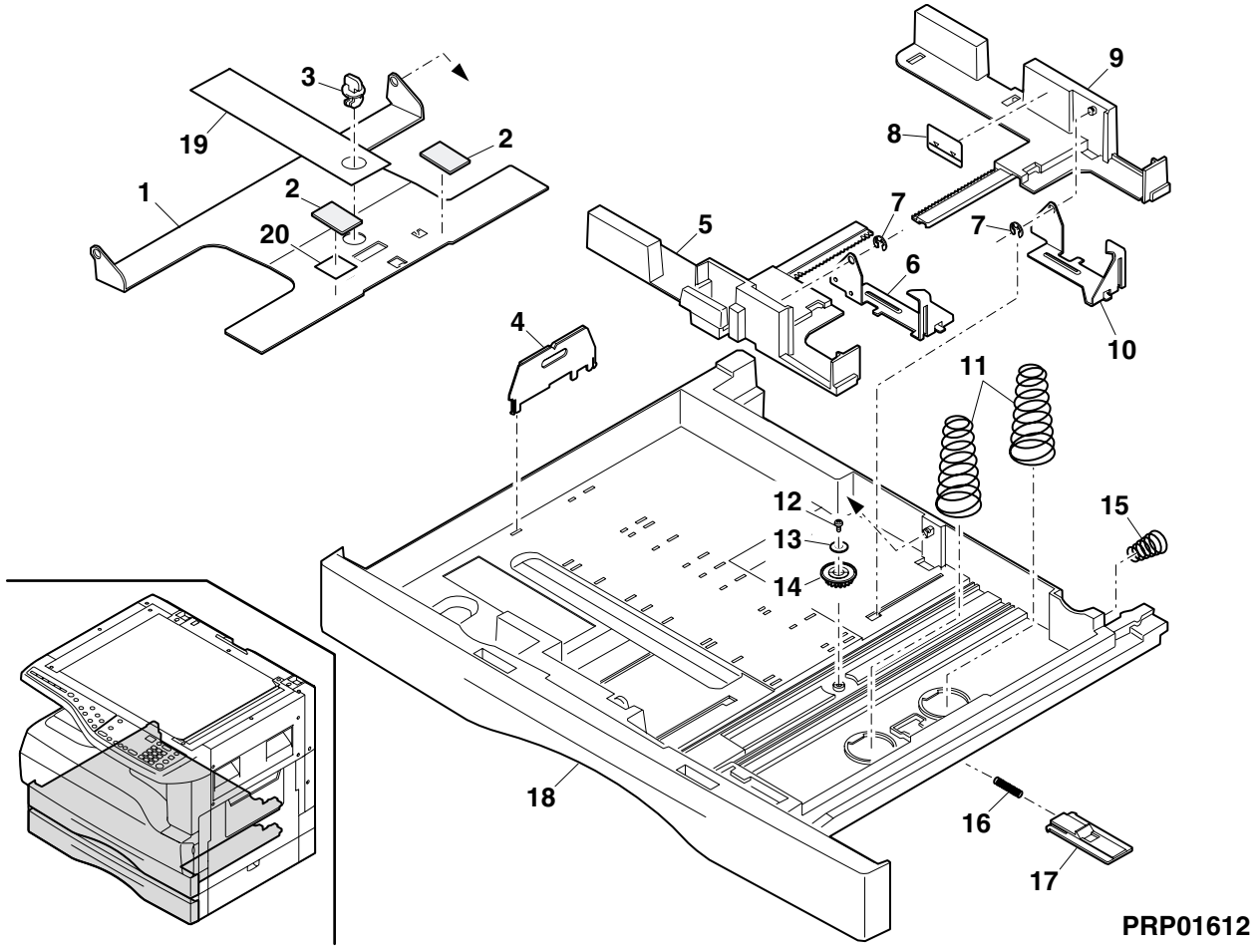
15 TC ｹｰｽﾕﾆｯﾄ (TC case unit)



16 250 枚ﾄﾚｲﾕﾆｯﾄ (250 sheets tray unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	LPLTM0053QSZ1	AS	EQ		C	Rotation plate	回転板
2	PSHEZ0441QSZZ	AD	DJ	N	C	Rotation plate sheet	回転板ｼｰﾄ
3	LHLDW1226FCZZ	AB	DJ		C	Turn faster	ﾀｰﾝﾌｧｽﾅｰ
4	LPLTM2642FCG2	AD	DJ		C	Tray rear plate	ｶｾｯﾄ後端板
7	XRESP40-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
8	TLABH0064QSZ1	AC	DJ		D	Indicator label	指示線ﾗﾍﾞﾙ
11	MSPRC0334QSZZ	AD	DJ	N	C	Tray spring	ﾄﾚｲﾊﾞﾈ
12	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
13	XWHSD30-08100	AA	DD		C	Washer	ﾜｯｼｬ
14	NGERH0193FCZZ	AB	DD		C	UC manual feed gear	UC 手差しｷﾞﾔｰ
15	MSPRC0152QSZZ	AB	DJ		C	Tray drawer lower spring D	ｶｾｯﾄ押出しﾊﾞﾈ D
16	MSPRC1145FCZZ	AA	DD		C	Stopper spring	ｽﾄｯﾊﾟｰｽﾌﾟﾘﾝｸﾞ
17	LSTPP0161FCZZ	AB	DD		C	Rotation plate stopper	回転板ｽﾄｯﾊﾟｰ
18	GCASP0003QSE2	BD	GN	N	D	Tray case	ﾄﾚｲｹｰｽ
19	TTAG-0004QSZZ	AC	DJ		D	Tray rotation tag	ﾄﾚｲ回転ﾀｸﾞ
20	PSPAZ0022QSZZ	AC	DJ		C	Rotation plate spacer	回転板ｽﾍﾟｰｻｰ
	(Unit)						
901	CCASP0003RS54	BL	HG	N	E	250 Tray unit	250 ﾄﾚｲﾕﾆｯﾄ

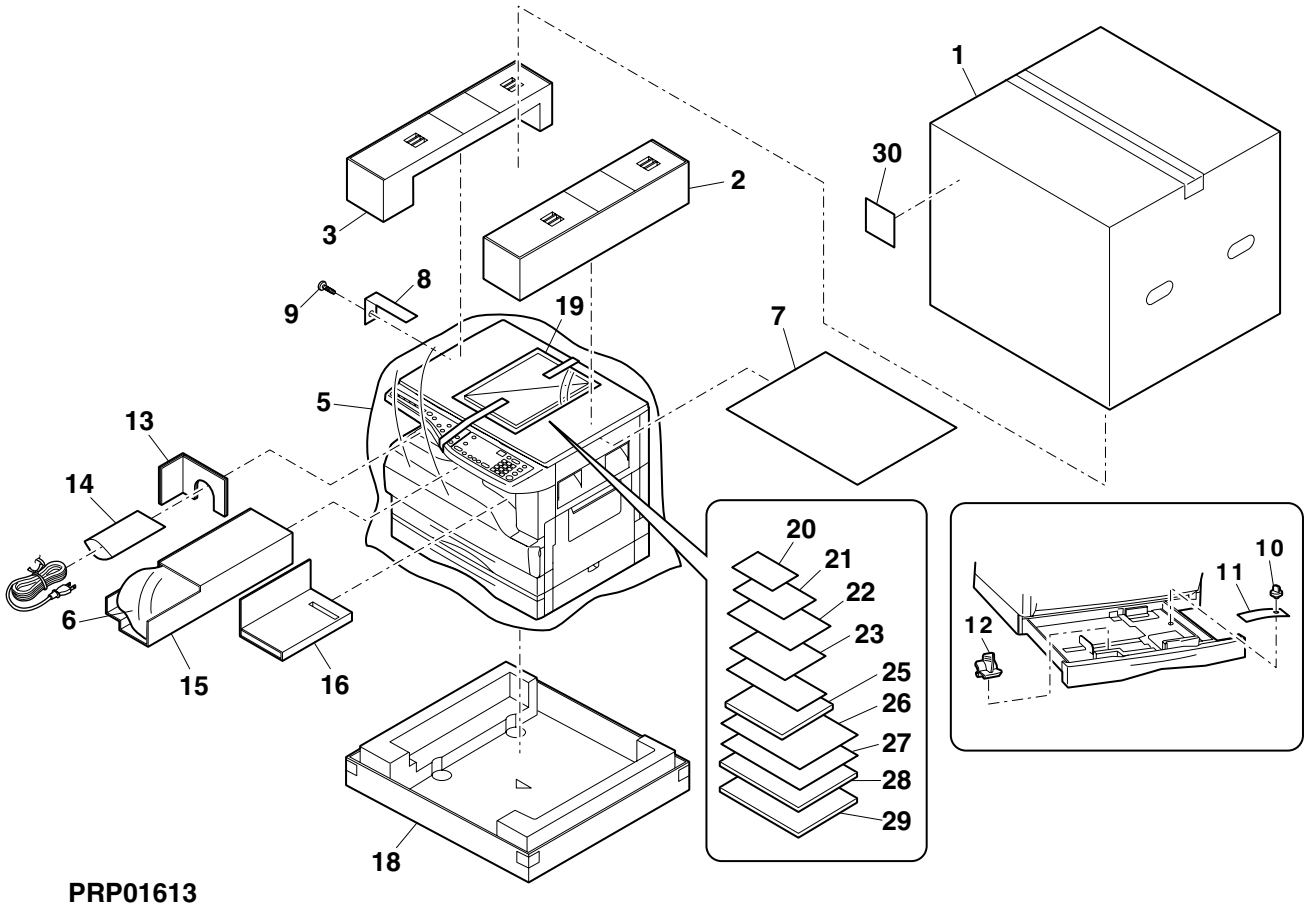
16 250 枚ﾄﾚｲﾕﾆｯﾄ (250 sheets tray unit)



17 梱包材&付属品 (Packing material & Accessories)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
2	SPAKA0464QSZZ	AV	FG	N	D	Top packing cushion R	天ｱﾄﾞ R
3	SPAKA0463QSZZ	AV	FG	N	D	Top packing cushion L	天ｱﾄﾞ L
5	SSAKZ0003QSZZ	AF	DS		D	Vinyl bag	ﾎﾞﾘ袋
6	UBAGF0018YSZ1	AF	DS		D	DV aluminum bag [AR-200M/AR160M]	DV ｱﾙﾐ袋
7	SPAKA0134QSZZ	AE	DJ		D	OC protect sheet [AR-200M/AR-160M/AR-M160/AR5220]	OC 保護ｼｰﾄ
8	TCADZ0010QSZZ	AC	DJ		D	Fixer screw caution card	固定ﾋﾞｽ注意ｶｰﾄﾞ
9	LX-BZ0015QSZZ	AF	DS		C	2nd,3rd mirror fixing screw	第 2,3 ﾐﾗｰﾋﾞｽ
10	LHLDW1226FCZZ	AB	DJ		C	Turn faster	ﾀｰﾝﾌｧｽﾅｰ
11	TTAG-0004QSZZ	AC	DJ		D	Tray rotation tag	ﾄﾚｲ回転ﾀｸﾞ
12	CCLEZ0005RS51	AQ	EQ		E	Charger cleaner unit	ﾁｬｰｼﾞｬｰｸﾘｰﾅﾕﾆｯﾄ
13	SPAKA0466QSZZ	AG	DX	N	D	Scanner reinforcement material	ｽｷｬﾝ補強材
14	SSAKA3001CCZZ	AA	DD		D	Vinyl bag(140×260mm)	ﾎﾞﾘ袋
18	SPAKA0465QSZZ	BE	GN	N	D	Bottom case	底ｹｰｽ
19	SSAKA2343QCZZ	AA	DD		D	Vinyl bag(260×380mm)	ﾎﾞﾘ袋
20	TLABH0460QSZZ	AD	DJ	N	D	Scanning transmitting label	ｽｷｬﾝ送信ﾗﾍﾞﾙ
21	TLABH0068QSZ1	AF	DS		D	Magnification select label (AB series)	倍率選択ﾗﾍﾞﾙ
	TLABH0078QSZ1	AE	DS		D	Magnification select label (Inch series)	倍率選択ﾗﾍﾞﾙ
22	TLABH0116QSZ1	AN	EG	N	D	Size display label (Japan only)	ｻｲｽﾞ表示ﾗﾍﾞﾙ
	TLABH0065QSZ2	AG	DX	N	D	Size display label (AB series Other Countries)	ｻｲｽﾞ表示ﾗﾍﾞﾙ
	TLABH0069QSZ2	AG	DX	N	D	Size display label (Inch series)	ｻｲｽﾞ表示ﾗﾍﾞﾙ
	TLABH0117QSZ1	AP	EQ	N	D	Size display label (Taiwan only)	ｻｲｽﾞ表示ﾗﾍﾞﾙ
23	CCASZ0067FC02	AM	EG		D	Maintenance card (Japan only)	ﾒﾝﾃﾅﾝｽｶｰﾄﾞ
	CCASZ0067FC01	AD	DJ		D	Maintenance card (Except Japan)	ﾒﾝﾃﾅﾝｽｶｰﾄﾞ
26	TCADZ0021QSZZ	AD	DJ		D	KIT agreement (Japan only)	ｷｯﾄ契約書
	TCADZ0253QSZZ	AF	DS	N	D	Instral manual card (Japan only)	設置手順書
	TCADZ0098QSZZ	AF	DS		D	Instral manual card (U.kingdom only)	設置手順書
27	TCADS1409FCZZ	AF	DS		D	Instral card (Japan only)	設置報告書
	TCADZ0049QSZZ	AH	DX		D	Instral card (Europe)	設置報告書
	TCADZ2001QCZA	AE	DS		D	Instral card (Australia,New Zealand)	設置報告書
28	TiNSJ0907QSZZ	AW	FG	N	D	Operation manual(COPY)(JAPANESE) (Japan only)	取扱説明書
	TiNSE0908QSZZ	AR	EQ	N	D	Operation manual(COPY)(ENGLISH) (U.S.A only)	取扱説明書
	TiNSF0912QSZZ	AZ	FQ	N	D	Operation manual(COPY)(FRENCH) (Canada, Algeria,Egypt,Syria,Tunisa,Nigeria,West Africa, Morocco,Jordan,Lebanon)	取扱説明書
	TiNSG0913QSZZ	AZ	FQ	N	D	Operation manual(COPY)(GERMAN) (Germany, Greece,Cyprus,Turkey,Poland,Hungary,Czecho,Russia)	取扱説明書
	TiNSE0911QSZZ	AW	FG	N	D	Operation manual(COPY)(ENGLISH) (U.kingdom only)	取扱説明書
	TiNSS0931QSZZ	AZ	FQ	N	D	Operation manual(COPY)(SPANISH) (LAG2,LAG4)	取扱説明書
	TiNSE0909QSZZ	AW	FG	N	D	Operation manual(COPY)(ENGLISH) (Other Countries)	取扱説明書
29	TiNSJ0932QSZZ	AK	EB	N	D	Operation manual(SETUP)(JAPANESE) (Japan only)	取扱説明書
	TiNSF0934QSZZ	AN	EQ	N	D	Operation manual(SETUP)(FRENCH) (Canada, Algeria,Egypt,Syria,Tunisa,Nigeria,West Africa, Morocco,Jordan,Lebanon)	取扱説明書
	TiNSG0935QSZZ	AN	EQ	N	D	Operation manual(SETUP)(GERMAN) (Germany, Greece,Cyprus,Turkey,Poland,Hungary,Czecho,Russia)	取扱説明書
	TiNSS0952QSZZ	AN	EQ	N	D	Operation manual(SETUP)(SPANISH) (LAG2,LAG4)	取扱説明書
	TiNSE0933QSZZ	AH	DX	N	D	Operation manual(SETUP)(ENGLISH) (Other Countries)	取扱説明書
30	TLABS3760FCZZ	AC	DJ		D	CE mark label (Europe,Algeria,Egypt,Syria,Tunisa, Nigeria,West Africa,Morocco,Jordan,Lebanon)	CE ﾏｰｸﾗﾍﾞﾙ

17 梱包材&付属品 (Packing material & Accessories)

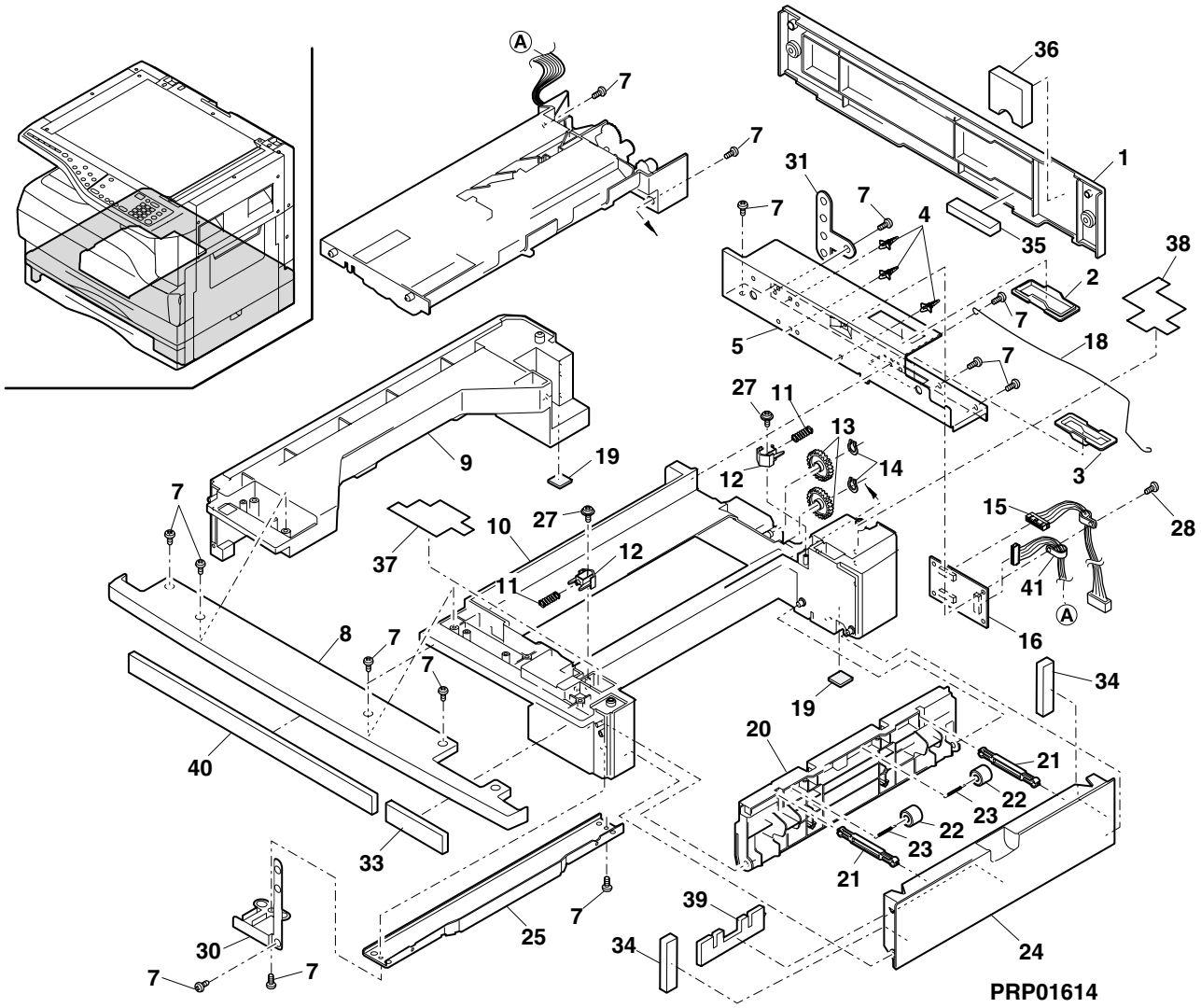


PRP01613

18 1ST トレイ外装 (1ST Tray exteriors)..AR-200M,AR-M205

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	GCOV-0020QSE1	AQ	EQ	N	D	Rear cover	後カバー
2	GGAD-0001QSZZ	AE	DJ		C	Edge guard upper	エッジガード 上
3	GGAD-0002QSZZ	AE	DS		C	Edge guard lower	エッジガード 下
4	LSUPP0083FCZZ	AB	DJ		C	Supporter(LCBS-3)	基板サポーター
5	LPLTM0116QSZZ	AQ	EQ		C	Joint plate R	連結板 R
7	XEBSE40P12000	AA	DD		C	Screw(4×12)	ビス
8	GCOV-0019QSZ2	AT	EZ	N	D	Front cover	前カバー
9	PGiDM0049QSE2	BA	FX	N	C	Guide L	ガイド L
10	PGiDM0048QSE2	BB	FX	N	C	Guide R	ガイド R
11	MSPRC0141QSZZ	AB	DJ		C	Transport PG lock spring	搬送 PG ロックスプリング
12	MLOKZ0001QSZZ	AC	DJ		C	Transport PG lock	搬送 PG ロック
13	NGERH1169FCZZ	AF	DS		C	Joint gear	連結ギヤー
14	PRNGP0019FCZZ	AA	DD		C	V ring(GTW-6)	V リング
15	DHAi-0326QSZZ	AM	EG	N	C	CAS harness	CAS ハーネス
16	CPWBF0019QSE5	AV	FG	N	E	1ST tray interface PWB	1 段トレイ中継基板
18	MSPRD0135QSZZ	AD	DJ		C	Joint earth spring	連結アースバネ
19	GLEGG0064FCZZ	AC	DJ		C	Rubber foot	ゴム足
21	MARMP0015QSZZ	AD	DJ		C	1ST door arm	1 段ドアアーム
22	NROLP1060FCZZ	AF	DS		C	U-turn roller	U ターンローラー
23	MSPRT0129QSZ1	AC	DJ		C	Roller spring	従動ローラーバネ
24	GCOV-0021QSE2	AP	EQ	N	D	1ST right cover	1 段右カバー
25	LPLTM0113QSZZ	AH	DX		C	Guide R joint plate	ガイド R 連結板
27	XEPSD30P08X00	AA	DD		C	Screw(3×8X)	ビス
28	XHBSE30P14000	AA	DD		C	Screw(3×14)	ビス
30	LPLTM0135QSZZ	AF	DS		C	2nd joint earth plate	2nd 連結アース板
31	LPLTM0138QSZZ	AD	DJ		C	2nd joint earth plate left back	2nd 連結アース板左後
33	PSHEZ0172QSZZ	AB	DJ		C	Front sheet 2	(Europe) フロントシート 2
34	PSHEZ0173QSZZ	AB	DJ		C	Right cover sheet	(Europe) 右カバーシート
35	PSPO-0008QSZZ	AC	DJ		C	Rear cover cushion 1	(Europe) 後カバースポンジ 1
36	PSPO-0009QSZZ	AD	DJ		C	Rear cover cushion 2	(Europe) 後カバースポンジ 2
37	PSPO-0010QSZZ	AD	DJ		C	Guide R cushion F	(Europe) ガイド R スポンジ F
38	PSPO-0011QSZZ	AD	DJ		C	Guide R cushion R	(Europe) ガイド R スポンジ R
39	PSPO-0014QSZZ	AG	DS		C	Right cover cushion 3	(Europe) 右カバースポンジ 3
40	PSHEZ0171QSZZ	AD	DJ		C	Front sheet 1	(Europe) フロントシート 1
41	LHLDW3142KCZZ	AC	DD		C	Cable band	ケーブルバンド

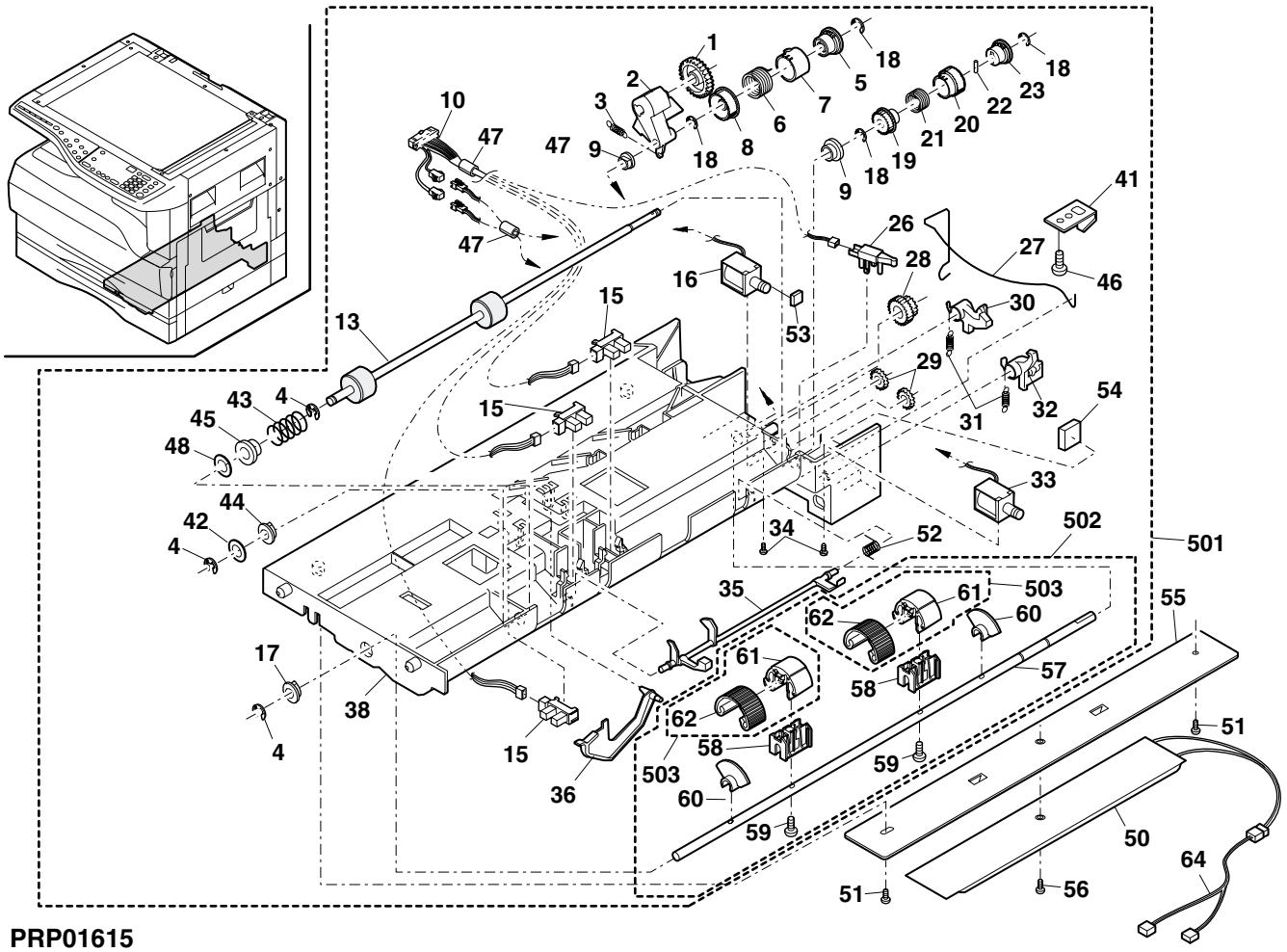
18 1ST トレイ外装 (1ST Tray exteriors)..AR-200M,AR-M205



19 1ST ﾄﾚｲ給紙ﾕﾆｯﾄ (1ST Tray paper feeding unit)..AR-200M,AR-M205

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	NGERH1207FCZZ	AF	DS		C	Joint gear(40T)	連結ｷﾞﾔｰ
2	MARMP0229FCZZ	AE	DS		C	Joint arm	連結ｱｰﾑ
3	MSPRT0128QSZZ	AB	DJ		C	Joint arm spring	連結ｱｰﾑﾊﾞﾈ
4	XRESP50-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
5	LBOSZ1031FCZZ	AC	DJ		C	Clutch boss	ｸﾗｯﾁﾎﾞｽ
6	MSPRC0161QSZZ	AF	DS		C	Clutch spring	ｸﾗｯﾁｽﾌﾟﾘﾝｸﾞ
7	PPiPP0007QSZZ	AD	DJ		C	Clutch pipe	ｸﾗｯﾁｽﾘｰﾌﾟ
8	NGERH1132FCZZ	AH	DX		C	Clutch gear(29T)	ｸﾗｯﾁｷﾞﾔｰ
9	NBRGM0501FCZZ	AB	DJ		C	Metal D(B-F6-7)	ﾒﾀﾙ D
10	DHAi-0075QSZ1	AR	EQ	N	C	1ST harness	1ST ﾊｰﾈｽ
13	NROLP0044QSZ2	AQ	EQ		C	1ST transport roller	1 段搬送ﾛｰﾗｰ
15	VHPGP1A71A1-1	AG	DX		B	Photo sensor(GP1A71A1)	ﾌｫﾄｾﾝｻｰ
16	RPLU-0012QSZ1	AM	EG	N	B	Paper feeding solenoid	給紙ｿﾚﾉｲﾄﾞ
17	NBRGC0188FCZZ	AB	DD		C	PF bearing	PF 軸受
18	XRESP40-06000	AA	DD		C	E type ring	E ﾘﾝｸﾞ
19	LBOSZ1510FCZZ	AF	DX		C	Cam boss A1	ｶﾑﾎﾞｽ A1
20	PPiPP0109FCZZ	AB	DD		C	Pipe A	手差しｸﾗｯﾁｽﾘｰﾌﾟ A ﾊﾟｲﾌﾟ
21	MSPRC1315FCZ1	AD	DJ		C	Clutch spring A	手差しｸﾗｯﾁｽﾌﾟﾘﾝｸﾞ A
22	LPiNS0181FCZZ	AA	DD		C	Spring pin	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
23	LBOSZ1508FCZZ	AG	DX		C	Cam boss A2	ｶﾑﾎﾞｽ A2
26	QSW-B0017QSZZ	AF	DS		B	Tray detect switch	ﾄﾚｲ検知ｽｲｯﾁ
27	MSPRD0134QSZ2	AC	DJ		C	Paper feeding earth spring	給紙ｱｰｽﾊﾞﾈ
28	NGERH0041QSZZ	AF	DS		C	2ND gear ID(18T/26T)	2 段ｷﾞﾔｰ
29	NGERH0990FCZZ	AB	DJ		C	Gear(16T)	ｷﾞﾔｰ
30	PTME-0017QSZZ	AD	DJ		C	Paper feeding clutch pawl	給紙ｸﾗｯﾁ爪
31	MSPRT0130QSZ1	AB	DJ		C	Clutch pawl spring	ｸﾗｯﾁ爪ﾊﾞﾈ
32	PTME-0016QSZZ	AD	DJ		C	Transport clutch pawl	搬送ｸﾗｯﾁ爪
33	RPLU-0013QSZ1	AM	EG	N	B	Transport solenoid	搬送ｿﾚﾉｲﾄﾞ
34	XBBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
35	MLEVP0039QSZ1	AE	DS		C	PPDI actuator	PPDI ｱｸﾁｭｰﾀｰ
36	MLEVP0046QSZZ	AD	DJ		C	CICS actuator	CICS ｱｸﾁｭｴｰﾀｰ
38	LFRM-0031QSE3	AU	EZ		C	Paper feeding frame	給紙ﾌﾚｰﾑ
41	LPLTM0137QSZZ	AD	DJ		C	Boss reinforce plate	ﾎﾞｽ補強板
42	LX-WZ0314FCZZ	AA	DD		C	Poly slider	ﾎﾟﾘｽﾗｲﾀﾞｰ
43	MSPRC0157QSZZ	AC	DJ		C	Break spring	ﾌﾞﾚｰｷｽﾌﾟﾘﾝｸﾞ
44	NBRGC0529FCZZ	AD	DJ		C	Bearing	軸受
45	PPiPP0011QSZZ	AC	DJ		C	Break sleeve	ﾌﾞﾚｰｷｽﾘｰﾌﾞ
46	XBBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
47	RCORF0006QSZZ	AL	EB		C	Core	ｺｱ
48	XWHSD60-10000	AA	DD		C	Washer	ﾜｯｼｬｰ
50	RHET-0011QSZZ	AQ	EQ	N	E	Heater unit (1ST tray) (Japan)	除湿ﾋｰﾀｰ
51	XEBSE30P08000	AA	DD		C	Screw(3×8) (Japan)	ﾋﾞｽ
52	MSPRD0156QSZZ	AB	DJ		C	PPDIACT spring	PPDIACT 復帰ｽﾌﾟﾘﾝｸﾞ
53	PSPO-0005QSZZ	AA	DJ		C	Cluch pawl spong (Europe)	ｸﾗｯﾁ爪ｽﾎﾟﾝｼﾞ
54	PSPO-0007QSZZ	AB	DJ		C	Toransport cluch pawl spong (Europe)	搬送ｸﾗｯﾁ爪ｽﾎﾟﾝｼﾞ
55	LPLTM0120QSZZ	AF	DS		C	Heater raditate plate (Japan)	ﾋｰﾀｰ放熱板
56	XHBSE30P08000	AA	DD		C	Screw(3×8) (Japan)	ﾋﾞｽ
57	NSFTZ0067QSZZ	AK	DX	N	C	Paper feed roller shaft	給紙ﾛｰﾗｰｼｬﾌﾄ
58	LHLDR0095QSZZ	AD	DJ	N	C	Paper feed roller holder	給紙ﾛｰﾗｰﾎﾙﾀﾞｰ
59	XEBSE30P12000	AA	DD		C	Screw(3×12)	ﾋﾞｽ
60	PCLR-0011QSZZ	AC	DJ	N	C	Roller color	ﾛｰﾗｰｶﾗｰ
61	LBRCR0011QSZZ	AD	DJ	N	C	Paper feed roller bracket	給紙ﾛｰﾗｰﾌﾞﾗｹｯﾄ
62	PGUMM0013QSZZ	AG	DX	N	C	Paper feed roller rubber	給紙ﾛｰﾗｰｺﾞﾑ
64	DHAi-0344QSZZ	AH	DX	N	C	2nd heater harness [AR-200M]	2nd ﾋｰﾀｰﾊｰﾈｽ
501	CFRM-0031RS5C	BL	HL	N	E	Paper feeding unit (1ST tray) (Except Europe)	給紙ﾕﾆｯﾄ
502	CSFTZ0067RS52	AW	FG	N	E	Paper feeding shaft	給紙ｼｬﾌﾄ
503	CGUMM0013RS51	AN	EG	N	E	Paper feed roller rubber unit	給紙ﾛｰﾗｰｺﾞﾑﾕﾆｯﾄ

19 1ST ﾄﾚｲ給紙ﾕﾆｯﾄ (1ST Tray paper feeding unit)..AR-200M,AR-M205



PRP01615

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PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
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【C】						
CARMP0010QS01	572 240 0343	1- 12	AD	DJ		C
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CBTN-0060QS01	578 170 0225	2- 7	AK	DX	N	C
CBTN-0061QS01	578 170 0226	2- 8	AE	DS	N	C
CBTN-0062QS01	578 170 0227	2- 10	AF	DS	N	C
CBTN-0062QS02	578 170 0229	2- 10	AE	DS	N	C
CBTN-0067QS01	578 170 0228	2- 3	AG	DS	N	C
CCAB-0073RS52	578 107 0564	2-901	BP	LP	N	E
CCAB-0073RS53	578 107 0565	2-901	BP	LP	N	E
CCAB-0073RS58	578 107 0566	2-901	BP	LP	N	E
CCAB-0073RS59	578 107 0567	2-901	BP	LP	N	E
CCAB-0073RS60	578 107 0568	2-901	BQ	LP	N	E
CCAB-0079QS01	578 107 0561	1- 27	AQ	EQ	N	D
CCASP0003RS54	578 108 0135	16-901	BL	HG	N	E
CCASZ0067FC01	572 108 0589	17- 23	AD	DJ		D
CCASZ0067FC02	572 108 0590	17- 23	AM	EG		D
CCLEZ0005RS51	578 704 0029	17- 12	AQ	EQ		E
CCOV-0046QS01	578 110 0235	1- 11	AV	FG	N	D
CCOV-0046QS02	578 110 0236	1- 11	AX	FG	N	D
CCOV-0046QS05	578 110 0238	1- 11	AW	FG	N	D
CCOV-0046QS06	578 110 0239	1- 11	AX	FG	N	D
CCOV-0046QS07	578 110 0251	1- 11	AX	FG	N	D
CCOVH0010RS56	578 110 0244	1-501	BK	HG	N	E
CCOVP0072RS53	578 110 0137	8-502	AR	EQ	N	E
CDAiU0012QS10	578 210 0097	4- 48	BH	GX	N	D
CDENC0010RS51	578 719 0001	12-501	BW	RB	N	E
CDENC0010RS53	578 719 0002	12-501	BW	RJ	N	E
CDOR-0004RS51	578 113 0013	3-901	BC	GD	N	E
CDOR-0004RS52	578 113 0014	3-901	BD	GN	N	E
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CFiX-0024QS02	578 211 0085	1- 7	AL	EB	N	D
CFiX-0024RS51	578 211 0088	1-502	BD	GJ	N	E
CFiX-0024RS52	578 211 0089	1-502	BD	GJ	N	E
CFRM-0017QS01	572 213 1886	9- 10	AH	DX		C
CFRM-0018QS01	572 213 1887	9- 12	AH	DX		C
CFRM-0020RS55	578 213 0470	13-501	BG	GT	N	E
CFRM-0021RS61	578 213 0460	7- 4	AY	FQ	N	E
CFRM-0021RS6D	578 213 0471	7-501	BG	GN	N	E
CFRM-0027RS72	578 213 0472	14-901	BP	LP	N	E
CFRM-0027RS73	578 213 0473	14-901	BQ	LP	N	E
CFRM-0027RS74	578 213 0474	14-901	BQ	LP	N	E
CFRM-0031RS5C	578 213 0476	19-501	BL	HL	N	E
CGERH0011RS51	578 281 0360	10-501	AE	DS		E
CGiDM0089RS51	578 345 0455	8-503	AZ	FX	N	E
CGUMM0013RS51	578 352 0054	11-502	AN	EG	N	E
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CHAi-0109RS52	578 427 0101	6- 10	AN	EG	N	E
CHLDZ0035RS51	578 214 0208	7- 2	BH	GX		E
CHNG-0007QS02	578 246 0038	1- 3	AM	EG	N	C
CLNS-0006RS51	578 372 0021	4- 8	BZ	TF	N	E
CMiR-0008QS35	578 374 0026	4- 2	BB	GD	N	E
〃	578 374 0026	5-901	BB	GD	N	E
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CPLTM0047QS03	578 221 0792	10- 18	AZ	FQ	N	C
CPLTM0047RS56	578 221 0781	10-901	BN	HV	N	E
CPLTM0047RS57	578 221 0782	10-901	BN	HV	N	E
CPLTM0047RS76	578 221 0783	10-502	BE	GN	N	E
CPLTM0047RS77	578 221 0784	10-502	BE	GN	N	E
CPLTM0071QS02	578 221 0646	12- 30	AL	EB	N	C
CPLTM0073QS01	572 221 7137	12-103	AM	EG		B
CPLTM0075QS01	572 221 7036	14- 58	AL	EB		C
CPLTM0103QS01	572 221 7133	12-118	AG	DX		B
CPLTM0114QS01	572 221 7018	11- 46	AG	DX	N	B
CPLTM0155QS02	578 221 0679	5- 13	AH	DX		C
CPLTM0156QS02	578 221 0680	5- 9	AH	DX		C
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CPLTM0312QS01	578 221 0785	4- 32	AK	DX	N	C
CPLTP0060RS52	578 221 0647	9-501	BU	NN		E
CPNLH0026QS01	578 158 0394	2- 17	AU	EZ	N	D
CPNLH0026QS02	578 158 0392	2- 17	AU	EZ	N	D
CPNLH0026QS03	578 158 0395	2- 17	AV	FG	N	D
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CPNLH0026QS18	578 158 0405	2- 17	AU	EZ	N	D
CPNLH0026QS19	578 158 0406	2- 17	BA	FX	N	D
CPNLH0026QS20	578 158 0407	2- 17	BA	FX	N	D
CPNLH0027QS02	578 158 0393	2- 19	AT	EZ	N	D
CPNLH0027QS03	578 158 0408	2- 19	AU	FG	N	D
CPNLH0028QS01	578 158 0409	2- 19	AV	FG	N	D
CPNLH0028QS02	578 158 0410	2- 19	AU	EZ	N	D
CPNLH0028QS03	578 158 0411	2- 19	AT	EZ	N	D
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CPWBF0114QSE3	578 684 1122	12- 5	BA	FX	N	E
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CPWBF0147QSE1	578 684 1124	4- 22	AL	EB	N	E
CPWBF0147QSE2	578 684 1125	14- 29	AP	EQ	N	E
CPWBF0147QSE3	578 684 1126	14- 61	AL	EB	N	E
CPWBF0147QSE4	578 684 1127	11- 24	AL	EB	N	E
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CPWBX0128QS32	578 684 1108	12- 37	CA	TV	N	E
CPWBX0128QS34	578 684 1106	12- 37	CA	TV	N	E
CPWBX0128QS36	578 684 1128	12- 37	CA	TV	N	E
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CSFTZ0066RS72	578 290 0231	11-501	AW	FG	N	E
CSFTZ0067RS52	578 290 0232	19-502	AW	FG	N	E
CSOU-0009QS34	578 226 0246	13-502	BA	FX	N	E
CSOU-0009QS35	578 226 0251	13-502	BA	FX	N	E
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DHAi-0106QSZ2	578 542 0314	6- 24	AK	DX	N	C
DHAi-0108QSZ1	578 542 0315	6- 25	AH	DX	N	C
DHAi-0110QSZ1	578 542 0316	10- 3	AL	EB	N	C
DHAi-0140QSZ1	578 542 0344	12- 50	AH	DX	N	C
DHAi-0167QSZZ	578 542 0171	12- 18	BA	FX		B
DHAi-0184QSZ1	578 542 0318	9- 3	AE	DS	N	C
DHAi-0313QSZZ	578 542 0306	8- 50	AH	DX	N	C
DHAi-0315QSZZ	578 542 0319	11- 2	AD	DJ	N	C
DHAi-0316QSZZ	578 542 0320	11- 63	AE	DJ	N	C
DHAi-0318QSZZ	578 542 0321	11- 62	AE	DJ	N	C
DHAi-0320QSZZ	578 542 0322	12- 52	AN	EQ	N	C
DHAi-0321QSZZ	578 542 0323	6- 63	AH	DX	N	C
DHAi-0322QSZZ	578 542 0324	6- 8	AS	EQ	N	C
DHAi-0323QSZZ	578 542 0325	10- 5	AC	DJ	N	C
DHAi-0324QSZZ	578 542 0326	2- 20	AH	DX	N	C
DHAi-0325QSZZ	578 542 0327	14- 64	AD	DJ	N	C
DHAi-0326QSZZ	578 542 0328	18- 15	AM	EG	N	C
DHAi-0327QSZZ	578 542 0329	10- 4	AD	DJ	N	C
DHAi-0328QSZZ	578 542 0330	12- 58	AH	DX	N	C
DHAi-0332QSZZ	578 542 0331	4- 81	AE	DJ	N	C
DHAi-0333QSZZ	578 542 0332	6- 57	AL	EB	N	C
DHAi-0340QSZZ	578 542 0348	12-123	AH	DX	N	C
DHAi-0342QSZZ	578 542 0333	12- 75	AG	DX	N	C
〃	578 542 0333	4- 9	AG	DX	N	C
DHAi-0344QSZZ	578 542 0345	19- 64	AH	DX	N	C
DHAi-0403QSZZ	578 542 0347	12-121	AG	DS	N	C
DUNT-0341RSZZ	578 685 0682	12-502	AV	FG	N	E
DUNT-0342RSZZ	578 685 0683	12-502	AZ	FQ	N	E
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DUNTK0343RSZZ	578 685 0686	6- 7	BV	RB	N	E
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DUNTW0327RSZZ	578 685 0689	9-901	BV	RB	N	E
DWiR-0466CSZZ	572 427 1070	15- 7	BG	HC		B
【G】						
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GCAB-0067QSZZ	578 107 0569	2- 15	AX	FG	N	D
GCAB-0068QSZZ	578 107 0570	1- 10	AV	FG	N	D
GCAB-0069QSZZ	578 107 0571	12- 2	AT	EZ	N	D
GCAB-0070QSZZ	578 107 0572	1- 18	BA	FX	N	D
GCAB-0071QSZ1	578 107 0573	1- 15	AV	FG	N	D
GCAB-0071QSZZ	578 107 0560	1- 15	AV	FG	N	D
GCAB-0073QSZZ	578 107 0574	2- 2	AW	FG	N	D
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GCOV-0019QSZ2	578 110 0240	18- 8	AT	EZ	N	D

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GCOV-0048QSZZ	578 110 0247	1- 13	AM	EG	N	D
GCOV-0049QSZ1	578 110 0234	14- 2	AK	EB	N	C
GCOV-0050QSZZ	578 110 0249	2- 14	AN	EG	N	D
GCOVH0010QSE5	578 110 0233	1- 1	BD	GJ	N	D
GCOVH0011QSE1	578 110 0250	1- 22	AM	EG	N	D
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GGAD-0001QSZZ	572 118 0004	18- 2	AE	DJ		C
GGAD-0002QSZZ	572 118 0005	18- 3	AE	DS		C
GLEGG0064FCZZ	572 123 0072	11- 41	AC	DJ		C
〃	572 123 0072	18- 19	AC	DJ		C
【J】						
JBTN-0063QSZZ	578 170 0230	2- 11	AE	DJ	N	C
JBTN-0064QSZZ	578 170 0231	2- 6	AF	DS	N	C
JBTN-0065QSZZ	578 170 0232	2- 5	AE	DJ	N	C
JBTN-0066QSZZ	578 170 0233	2- 4	AH	DX	N	C
JKNBZ0008QSZZ	578 174 0159	3- 32	AE	DJ	N	C
JKNBZ0010QSZZ	578 174 0158	6- 41	AD	DJ	N	C
【L】						
LANGT0003QSZ1	578 200 0200	6- 51	AC	DJ		C
LANGT0014QSZZ	578 200 0206	12- 34	AF	DS	N	C
LBNDJ0013FCZ1	572 201 0118	14- 74	AE	DJ		C
〃	572 201 0118	6- 54	AE	DJ		C
LBNDJ0043FCZ1	572 201 0125	4- 24	AA	DJ		C
LBOSZ1031FCZZ	572 202 0270	11- 14	AC	DJ		C
〃	572 202 0270	19- 5	AC	DJ		C
LBOSZ1508FCZZ	572 202 0378	13- 9	AG	DX		C
〃	572 202 0378	19- 23	AG	DX		C
〃	572 202 0378	6- 33	AG	DX		C
LBOSZ1510FCZZ	572 202 0373	13- 5	AF	DX		C
〃	572 202 0373	19- 19	AF	DX		C
LBRC-0012QSZZ	578 203 0054	11- 72	AD	DJ	N	C
LBRCR0011QSZZ	578 203 0051	11- 69	AD	DJ	N	C
〃	578 203 0051	19- 61	AD	DJ	N	C
LBSHZ0006QSZZ	578 204 0017	13- 62	AC	DJ		C
LBSHZ0303FCZZ	572 204 0302	13- 10	AC	DJ		C
〃	572 204 0302	3- 22	AC	DJ		C
LDAiU0030QSZZ	578 210 0098	4- 92	AS	EQ	N	C
LFiX-0007QSZ1	572 211 0693	7- 31	AE	DJ		C
LFiX-0016FCZZ	572 211 0172	12- 53	AD	DJ		C
LFiX-0023QSZZ	578 211 0090	4- 83	AC	DJ	N	C
LFiX-0284FCZZ	572 211 0176	5- 11	AC	DD		C
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LFRM-0020QSE3	578 213 0479	13- 33	AT	EZ	N	C
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LFRM-0027QSZ2	578 213 0482	14- 39	AS	EQ	N	C
LFRM-0031QSE3	578 213 0453	19- 38	AU	EZ		C
LFRM-0036QSZZ	578 213 0250	9- 40	AT	EZ		D
LFRM-0067QSZZ	578 213 0480	12- 14	AK	EB	N	C
LFRM-0068QSZZ	578 213 0481	12- 16	AQ	EQ	N	C
LHLDR0072QSZZ	578 214 0204	8- 34	AC	DJ	N	C
LHLDR0095QSZZ	578 214 0265	11- 67	AD	DJ	N	C
〃	578 214 0265	19- 58	AD	DJ	N	C
LHLDW0086QSZZ	578 214 0211	14- 72	AB	DJ		C
LHLDW1226FCZZ	572 214 1450	16- 3	AB	DJ		C
〃	572 214 1450	17- 10	AB	DJ		C
LHLDW3142KCZZ	574 214 0010	18- 41	AC	DD		C
LHLDZ0001YSZZ	572 214 1908	8- 30	AD	DJ	N	C
LHLDZ0013QSZZ	572 214 1869	5- 5	AD	DJ		C
LHLDZ0030QSZZ	572 214 1910	15- 6	AD	DJ	N	C
LHLDZ0031QSZ3	578 214 0268	15- 13	AH	EQ	N	C
LHLDZ0032QSZZ	572 214 1906	15- 10	AD	DJ	N	C
LHLDZ0033QSZ1	572 214 1931	3- 15	AF	DS		C
LHLDZ0034QSZZ	572 214 1897	9- 14	AF	DS		C
LHLDZ0038QSZ1	572 214 1962	6- 15	AH	DX		C
LHLDZ0039QSZZ	572 214 1912	6- 21	AE	DJ	N	C
LHLDZ0040QSZ2	578 214 0185	14- 16	AS	EQ	N	C
LHLDZ0044QSZ2	578 214 0279	5- 1	AN	EG	N	C
LHLDZ0045QSZZ	572 214 1907	7- 12	AD	DJ		C
LHLDZ0098QSZ2	578 214 0275	7- 12	AD	DJ		C
LHLDZ0099QSZZ	578 214 0272	6- 62	AC	DJ	N	C
LHLDZ0100QSZZ	578 214 0280	11- 37	AD	DJ	N	C
LHLDZ0104QSZZ	578 214 0281	4- 25	AD	DJ	N	C
LHLDZ0109QSZZ	578 214 0277	4- 4	AD	DJ	N	C
LHLDZ0110QSZZ	578 214 0282	12-120	AG	DX	N	C

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			Ex.	Ja.		
LPFTF0004QSZZ	578 217 0006	4- 62	AB	DJ	N	C
LPiNS0181FCZZ	572 218 0093	19- 22	AA	DD		C
LPiNS0258FCZZ	572 218 0329	14- 32	AA	DD		C
LPiNS0300FCZZ	572 218 0424	6- 47	AD	DJ		C
LPiNS0301FCZZ	572 218 0426	6- 47	AD	DJ		C
LPLTM0001YSZZ	572 221 7078	8- 28	AN	EG	N	C
LPLTM0002YSZ2	578 221 0776	8- 27	AP	EQ	N	C
LPLTM0048QSZZ	572 221 7039	10- 11	AF	DS		C
LPLTM0050QSZZ	572 221 7040	9- 17	AM	EG		C
LPLTM0053QSZ1	572 221 7143	16- 1	AS	EQ		C
LPLTM0065QSZZ	572 221 7048	11- 6	AL	EB		C
LPLTM0067QSZZ	572 221 7050	6- 22	AC	DJ	N	C
LPLTM0082QSZ7	578 221 0780	12- 12	AF	EQ	N	C
LPLTM0090QSZZ	572 221 7057	3- 8	AE	DS		C
LPLTM0091QSZZ	572 221 7058	3- 6	AE	DS		C
LPLTM0092QSZZ	572 221 7059	3- 4	AF	DS	N	C
LPLTM0099QSZ2	578 221 0766	12- 24	AK	DX	N	C
LPLTM0100QSZ1	578 221 0528	14- 14	AD	DJ	N	C
LPLTM0102QSZZ	572 221 7134	3- 26	AD	DJ		C
LPLTM0112QSZZ	572 221 7022	11- 48	AE	DJ		C
LPLTM0113QSZZ	572 221 7023	18- 25	AH	DX		C
LPLTM0116QSZZ	572 221 7025	18- 5	AQ	EQ		C
LPLTM0120QSZZ	572 221 7149	19- 55	AF	DS		C
LPLTM0125QSZZ	572 221 7117	11- 52	AD	DJ		C
LPLTM0135QSZZ	572 221 7155	18- 30	AF	DS		C
LPLTM0137QSZZ	572 221 7157	19- 41	AD	DJ		C
LPLTM0138QSZZ	572 221 7158	18- 31	AD	DJ		C
LPLTM0149QSZZ	578 221 0555	6- 55	AD	DJ		C
LPLTM0306QSZZ	578 221 0786	12- 61	AL	EB	N	C
LPLTM0307QSZZ	578 221 0787	12- 40	AL	EB	N	C
LPLTM0308QSZZ	578 221 0788	12- 21	AL	EB	N	C
LPLTM0309QSZZ	578 221 0789	12- 41	AE	DS	N	C
LPLTM0310QSZZ	578 221 0790	12- 60	AP	EQ	N	C
LPLTM0314QSZZ	578 221 0791	4- 80	AC	DJ	N	C
LPLTM0347QSZZ	578 221 0793	12- 31	AG	DS	N	C
LPLTM2642FCG2	578 221 0760	16- 4	AD	DJ		C
LPLTM6022FCZZ	572 221 7946	8- 36	AC	DJ		C
LPLTP0051QSZZ	572 221 7093	9- 23	AD	DJ		C
LPLTP0056QSZ3	578 221 0705	13- 3	AD	DJ		C
LPLTP0060QSZ3	578 221 0756	9- 41	AM	EG	N	C
LPLTP0348QSZZ	578 221 0779	11- 29	AC	DJ	N	C
LRALM0006QSZZ	572 223 0232	4- 47	AG	DS		C
LRALM0007QSZ1	578 223 0026	4- 27	AG	DS		C
LRALP0004QSZ2	578 223 0025	3- 2	AH	DX	N	C
LRALP0014QSEZ	578 223 0027	11- 27	AM	EG	N	C
LSOU-0009QSE2	578 226 0247	13- 45	AS	EQ	N	D
LSOU-0010QSE1	578 226 0248	13- 48	AR	EQ	N	D
LSOU-0011QSE1	578 226 0249	13- 47	AL	EB	N	D
LSOU-0036QSZZ	578 226 0250	12- 1	BA	FX	N	D
LSTPP0003QSZ1	578 230 0048	14- 54	AC	DJ		C
LSTPP0011QSZZ	578 230 0043	13- 61	AC	DJ		C
LSTPP0014QSZZ	578 230 0052	6- 60	AC	DJ		C
LSTPP0116FCZZ	572 230 0157	9- 7	AA	DD		C
LSTPP0161FCZZ	572 230 0062	16- 17	AB	DD		C
LSUPP0083FCZZ	572 233 0113	18- 4	AB	DJ		C
LX-BZ0004QSZZ	572 970 1917	4- 26	AB	DD		C
LX-BZ0013QSZ1	572 970 1962	9- 30	AC	DD		C
LX-BZ0015QSZZ	572 970 1957	17- 9	AF	DS		C
LX-BZ0020QSZZ	578 970 0214	6- 56	AB	DD		C
LX-BZ0027QSZZ	578 970 0219	8- 3	AD	DJ	N	C
LX-BZ0031QSZZ	578 970 0232	12- 33	AC	DD		C
LX-BZ0039FCZZ	572 970 0411	4- 64	AB	DD		C
LX-BZ0039QSZZ	578 970 0242	12- 42	AB	DD	N	C
LX-BZ0049FCZZ	572 970 0353	4- 42	AB	DD		C
LX-BZ0324FCZZ	572 970 0197	4- 41	AA	DD		C
LX-BZ0335FCZZ	572 970 0245	5- 8	AA	DD		C
LX-BZ0700FCZZ	572 970 1422	12- 28	AA	DD	N	C
LX-BZ0750FCZZ	572 970 1527	1- 14	AB	DD		C
〃	572 970 1527	12- 35	AB	DD		C
〃	572 970 1527	2- 1	AB	DD		C
LX-BZ0759FCZZ	572 970 1534	1- 25	AB	DD		C
LX-BZ3008SC0S	572 970 1408	1- 53	AA	DD		C
LX-RZ0001QSZZ	572 990 0487	7- 14	AB	DD		C
LX-WZ0001GCZZ	578 990 0063	5- 17	AB	DD		C
LX-WZ0001QSZZ	572 990 0467	9- 55	AC	DD		C
LX-WZ0002QSZZ	572 990 0486	10- 13	AB	DD		C
LX-WZ0017GCZZ	578 990 0070	4- 35	AC	DD		C
LX-WZ0198FCZZ	572 990 0042	6- 66	AA	DD		C
LX-WZ0313FCZZ	572 990 0227	9- 48	AA	DD		C
LX-WZ0314FCZZ	572 990 0230	10- 37	AA	DD		C
〃	572 990 0230	19- 42	AA	DD		C

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			Ex.	Ja.		
LX-WZ0329FCZZ	572 990 0410	7- 13	AB	DD		C
LX-WZ1003HCZZ	509 990 5001	6- 67	AA	DD		C
LX-WZ7021SCZZ	569 990 0002	9- 58	AA	DD		C
【M】						
MARMP0005QSEZ	578 240 0104	13- 51	AD	DJ	N	C
MARMP0006QSZZ	572 240 0354	13- 20	AD	DJ		C
MARMP0008QSZZ	572 240 0350	13- 2	AH	DX		C
MARMP0009QSZZ	572 240 0351	13- 16	AF	DS		C
MARMP0015QSZZ	572 240 0341	18- 21	AD	DJ		C
MARMP0041QSZZ	578 240 0084	13- 19	AE	DS		C
MARMP0229FCZZ	572 240 0274	19- 2	AE	DS		C
MCAMP0001QSZZ	572 241 0122	13- 22	AF	DS		C
MLEVP0017QSZ1	578 248 0212	9- 36	AF	DS		C
MLEVP0018QSZ1	578 248 0213	9- 33	AF	DS		C
MLEVP0019QSZ3	578 248 0214	9- 34	AE	DJ		C
MLEVP0020QSZ3	578 248 0215	9- 35	AE	DJ		C
MLEVP0023QSZZ	572 248 1141	11- 25	AE	DS		C
MLEVP0024QSZZ	572 248 1142	11- 32	AF	DS		C
MLEVP0026QSZ2	572 248 1190	9- 42	AE	DJ	N	C
MLEVP0039QSZ1	578 248 0257	19- 35	AE	DS		C
MLEVP0044QSZZ	572 248 1160	11- 42	AE	DS		C
MLEVP0046QSZZ	572 248 1162	19- 36	AD	DJ		C
MLEVP0106QSZZ	578 248 0265	14- 28	AD	DJ	N	C
MLŌKZ0001QSZZ	572 252 0020	18- 12	AC	DJ		C
MSLi-0138FCZZ	572 256 0169	4- 85	AC	DJ		E
〃	572 256 0169	5- 7	AC	DJ		E
MSPRC0024QSZZ	572 258 3129	6- 4	AA	DJ		C
MSPRC0040QSZZ	572 258 3140	4- 28	AB	DJ		C
MSPRC0045QSZZ	572 258 3142	7- 26	AA	DJ		C
MSPRC0081QSZZ	572 258 3238	10- 34	AB	DJ		C
MSPRC0082QSZ1	578 258 0609	3- 16	AC	DJ		C
MSPRC0083QSZ1	572 258 3311	3- 14	AD	DJ		C
MSPRC0084QSZ1	572 258 3312	3- 13	AD	DJ		C
MSPRC0085QSZZ	572 258 3242	3- 9	AE	DJ		C
MSPRC0106QSZZ	572 258 3247	6- 35	AF	DS		C
MSPRC0141QSZZ	572 258 3248	18- 11	AB	DJ		C
MSPRC0152QSZZ	572 258 3303	16- 15	AB	DJ		C
MSPRC0157QSZZ	572 258 3324	19- 43	AC	DJ		C
MSPRC0161QSZZ	578 258 0554	11- 15	AF	DS		C
〃	578 258 0554	19- 6	AF	DS		C
MSPRC0278QSZZ	578 258 0741	6- 26	AC	DJ		C
MSPRC0301QSZZ	578 258 0794	11- 30	AD	DJ	N	C
MSPRC0319QSZZ	578 258 0795	3- 31	AB	DJ	N	C
MSPRC0334QSZZ	578 258 0793	16- 11	AD	DJ	N	C
MSPRC1145FCZZ	572 258 1272	16- 16	AA	DD		C
MSPRC1315FCZ1	572 258 2131	12-114	AD	DJ		C
〃	572 258 2131	13- 7	AD	DJ		C
〃	572 258 2131	19- 21	AD	DJ		C
MSPRC1316FCZ1	572 258 2132	13- 23	AE	DS		C
MSPRC1318FCZ1	572 258 2134	10- 9	AA	DJ		C
〃	572 258 2134	13- 29	AA	DJ		C
MSPRC2132FCZ1	572 258 2195	10- 23	AA	DJ		C
MSPRC2175FCZZ	572 258 2170	13- 32	AA	DJ		C
MSPRD0092QSZZ	572 258 3287	13- 26	AE	DJ		C
MSPRD0102QSZZ	572 258 3250	6- 14	AC	DJ		C
MSPRD0103QSZZ	572 258 3251	6- 13	AC	DJ		C
MSPRD0104QSZZ	572 258 3252	6- 12	AC	DJ		C
MSPRD0117QSZZ	572 258 3253	9- 43	AB	DJ	N	C
MSPRD0118QSZ1	578 258 0544	9- 44	AB	DJ	N	C
MSPRD0121QSZZ	572 258 3307	9- 53	AB	DJ		C
MSPRD0122QSZZ	572 258 3308	9- 52	AB	DJ		C
MSPRD0134QSZ2	572 258 3334	19- 27	AC	DJ		C
MSPRD0135QSZZ	572 258 3261	18- 18	AD	DJ		C
MSPRD0139QSZZ	572 258 3262	6- 30	AB	DJ		C
MSPRD0143QSZ1	578 258 0545	14- 30	AF	DS		C
MSPRD0144QSZZ	572 258 3265	14- 52	AC	DJ		C
MSPRD0156QSZZ	572 258 3318	19- 52	AB	DJ		C
MSPRD0233QSZ1	578 258 0715	11- 35	AC	DJ		C
MSPRD0298QSZZ	578 258 0796	6- 61	AD	DJ	N	C
MSPRD0300QSZZ	578 258 0797	11- 38	AD	DJ	N	C
MSPRD0302QSZZ	578 258 0798	13- 65	AC	DJ	N	C
MSPRK0001YSZZ	572 258 3266	8- 33	AB	DJ	N	C
MSPRP0087QSZZ	572 258 3267	9- 31	AC	DJ		C
MSPRP2825FCZZ	572 258 3919	4- 86	AC	DJ		C
MSPRT0086QSZZ	572 258 3274	9- 18	AB	DJ	N	C
MSPRT0091QSZZ	572 258 3276	13- 12	AC	DJ		C
MSPRT0107QSZZ	572 258 3278	14- 55	AC	DJ		C
MSPRT0128QSZZ	572 258 3280	19- 3	AB	DJ		C
MSPRT0129QSZ1	572 258 3300	18- 23	AC	DJ		C
MSPRT0130QSZ1	572 258 3322	19- 31	AB	DJ		C
MSPRT0141GCA1	578 258 0413	3- 27	AB	DJ		C

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			Ex.	Ja.		
MSPRT0147QSZZ	572 258 3301	13- 36	AC	DJ		C
MSPRT0229GCAZ	578 258 0416	14- 48	AC	DJ		C
〃	578 258 0416	14- 7	AC	DJ		C
MSPRT0303QSZZ	578 258 0799	9- 32	AD	DJ	N	C
MSPRT0304QSZZ	578 258 0800	9- 18	AD	DJ	N	C
MSPRT0513FCZ1	572 258 2240	15- 8	AA	DJ		C
【N】						
NBLTT0007QSZZ	572 271 0603	12- 36	AH	DX		B
NBLTT0008QSZZ	572 271 0608	12-111	AG	DX		C
NBLTT0009QSZZ	572 271 0609	12-110	AG	DX		C
NBLTT0037QSZZ	578 271 0080	4- 37	AL	EB	N	B
NBRGC0018QSZZ	578 272 0130	6- 38	AD	DJ		C
NBRGC0019QSZZ	578 272 0131	14- 33	AD	DJ		C
NBRGC0020QSZZ	578 272 0132	8- 17	AH	DX	N	C
NBRGC0021QSZZ	578 272 0133	8- 21	AD	DJ	N	C
NBRGC0188FCZZ	572 272 0243	19- 17	AB	DD		C
NBRGC0529FCZZ	572 272 0498	12-104	AD	DJ		C
〃	572 272 0498	14- 13	AD	DJ		C
〃	572 272 0498	19- 44	AD	DJ		C
NBRGM0501FCZZ	572 272 0461	19- 9	AB	DJ		C
NBRGP0007QSZZ	572 272 0677	11- 19	AD	DJ	N	C
NBRGP0011QSZZ	578 272 0138	4- 46	AC	DJ		C
NBRGP0012QSZZ	578 272 0139	4- 39	AC	DJ		C
NBRGP0260FCZ1	572 272 0433	9- 28	AD	DS		C
NBRGP0299FCZZ	572 272 0013	7- 18	AC	DJ		C
NBRGP0567FCZZ	572 272 0558	9- 8	AG	DX		C
NBRGY2122SCZZ	595 272 0047	14- 15	AB	DD		B
〃	595 272 0047	14- 37	AB	DD		B
NCPL-0003QSZZ	572 274 0044	7- 9	AC	DJ		C
NCPL-0004FCZZ	572 274 0003	10- 24	AB	DD		C
NCPL-0007QSZ1	578 274 0006	6- 3	AC	DJ	N	C
NCPL-0012QSZZ	578 274 0007	13- 64	AD	DJ	N	C
NFANP0009QSZZ	578 277 0026	14- 43	AT	EZ	N	B
NFANP0010QSZZ	578 277 0027	12- 6	AS	EQ	N	C
NGERH0001YSZZ	572 281 1818	8- 20	AD	DJ	N	C
NGERH0002YSZZ	572 281 1819	8- 18	AD	DJ	N	C
NGERH0007QSZZ	572 281 1748	10- 26	AH	DX		C
NGERH0008QSZ3	578 281 0389	10- 28	AL	EB		C
NGERH0009QSZZ	572 281 1750	10- 20	AD	DJ		C
NGERH0010QSZZ	572 281 1751	10- 19	AD	DJ		C
NGERH0011QSZZ	572 281 1752	10- 22	AD	DJ	N	C
NGERH0012QSZZ	572 281 1753	10- 30	AE	DS		C
NGERH0013QSZZ	572 281 1754	10- 32	AG	DX		C
NGERH0014QSZZ	572 281 1755	10- 21	AD	DJ		C
NGERH0016QSZZ	572 281 1757	10- 33	AD	DJ		C
NGERH0036QSZZ	572 281 1773	7- 28	AC	DJ		C
NGERH0037QSZZ	572 281 1774	7- 30	AC	DJ		C
NGERH0038QSZZ	572 281 1775	7- 29	AC	DJ		C
NGERH0039QSZZ	572 281 1776	7- 25	AE	DS		C
NGERH0041QSZZ	572 281 1801	19- 28	AF	DS		C
NGERH0052QSZZ	572 281 1823	10- 25	AE	DJ		C
NGERH0053QSZZ	572 281 1824	10- 14	AD	DJ		C
NGERH0054QSZZ	572 281 1825	10- 38	AD	DJ		C
NGERH0055QSZZ	572 281 1826	10- 35	AE	DJ		C
NGERH0056QSZZ	572 281 1827	10- 36	AE	DJ		C
NGERH0057QSZZ	572 281 1828	10- 27	AE	DJ		C
NGERH0058QSZZ	572 281 1829	10- 31	AF	DS		C
NGERH0059QSZZ	572 281 1830	10- 29	AD	DJ		C
NGERH0060QSZZ	572 281 1809	11- 17	AH	DX	N	C
NGERH0061QSZZ	572 281 1810	13- 15	AD	DJ		C
NGERH0062QSZZ	572 281 1831	6- 37	AK	DX		C
NGERH0063QSZZ	572 281 1811	14- 31	AD	DJ		C
NGERH0064QSZZ	572 281 1836	12-106	AD	DJ		C
NGERH0065QSZZ	572 281 1837	12-105	AC	DJ		C
NGERH0066QSZZ	572 281 1838	12-116	AD	DJ		C
NGERH0067QSZZ	572 281 1812	14- 56	AD	DJ		C
NGERH0068QSZ1	578 281 0294	14- 57	AD	DJ		C
NGERH0070QSZZ	572 281 1814	14- 35	AC	DJ		C
NGERH0074QSZZ	572 281 1839	3- 25	AD	DJ	N	C
NGERH0075QSZZ	572 281 1847	12-108	AC	DJ		C
NGERH0078QSZZ	572 281 1817	11- 44	AE	DJ	N	C
NGERH0145QSZ1	578 281 0386	8- 23	AD	DJ	N	C
NGERH0165QSZZ	578 281 0397	4- 34	AE	DJ	N	C
NGERH0193FCZZ	572 281 0318	13- 46	AB	DD		C
〃	572 281 0318	16- 14	AB	DD		C
NGERH0495FCZZ	572 281 0665	13- 14	AC	DD		C
NGERH0540FCZ3	578 281 0293	9- 13	AD	DJ		B
NGERH0972FCZZ	572 281 1108	13- 27	AB	DJ		C
NGERH0990FCZZ	572 281 1125	19- 29	AB	DJ		C
NGERH1132FCZZ	572 281 1349	19- 8	AH	DX		C
NGERH1169FCZZ	572 281 1385	11- 45	AF	DS		C

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			Ex.	Ja.		
NGERH1169FCZZ	572 281 1385	18- 13	AF	DS		C
NGERH1207FCZZ	572 281 1388	19- 1	AF	DS		C
NKOM-0001QSZZ	572 273 0019	6- 29	AD	DJ		C
NKOM-0002QSZZ	572 273 0020	14- 9	AC	DJ	N	C
NKOM-0009QSZZ	578 273 0007	11- 74	AC	DJ	N	C
NPLYZ0006QSZZ	572 284 0701	4- 19	AD	DJ		C
NPLYZ0008QSZZ	572 284 0720	12-112	AC	DJ		C
NPLYZ0011QSZZ	572 284 0721	12-109	AC	DJ		C
NPLYZ0016QSZZ	578 284 0068	4- 18	AF	DS		C
NPLYZ0017QSZZ	578 284 0069	5- 4	AE	DS		C
NPLYZ0030QSZZ	578 284 0075	14- 31	AE	DJ	N	C
NPLYZ0031QSZZ	578 284 0076	4- 43	AL	EB	N	C
NPLYZ0032QSZZ	578 284 0077	4- 40	AK	DX	N	C
NROLi0030QSZZ	572 287 1890	9- 11	BC	GJ		C
NROLM0071QSZZ	578 287 0307	8- 26	AZ	FX	N	C
NROLM0103QSZZ	578 287 0401	14- 6	AQ	EQ	N	C
NROLP0032QSZ2	578 287 0384	6- 40	AT	EZ		C
NROLP0034QSZZ	572 287 1908	14- 8	AD	DJ	N	C
NROLP0036QSZZ	572 287 1915	3- 21	AP	EQ	N	C
NROLP0038QSZZ	572 287 1900	14- 38	AP	EQ		C
NROLP0044QSZ2	578 287 0386	19- 13	AQ	EQ		C
NROLP0072QSZ1	578 287 0395	8- 15	AP	EQ	N	C
NROLP0104QSZZ	578 287 0402	14- 71	AC	DJ	N	C
NROLP1060FCZZ	572 287 1396	18- 22	AF	DS		C
NROLP1122FCZZ	572 287 1526	14- 46	AF	DS		C
〃	572 287 1526	3- 28	AF	DS		C
NROLR0031QSZ1	572 287 1916	9- 27	BC	GJ		C
NROLR0922FCZ2	578 287 0400	13- 13	AR	EQ	N	C
NROLR1267FCZ1	578 287 0398	13- 17	AH	DX	N	C
NSFTZ0017QSZZ	572 290 2470	13- 21	AG	DS		C
NSFTZ0019QSZZ	572 290 2472	7- 22	AE	DJ	N	C
NSFTZ0020QSZZ	572 290 2473	7- 19	AL	EB		C
NSFTZ0021QSZ1	578 290 0179	6- 28	AL	EB		C
NSFTZ0064QSZZ	578 290 0221	11- 75	AD	DJ	N	C
NSFTZ0066QSZZ	578 290 0228	11- 66	AK	DX	N	C
NSFTZ0067QSZZ	578 290 0229	19- 57	AK	DX	N	C
NSFTZ0071QSZZ	578 290 0233	4- 44	AK	EB	N	C
【P】						
PBOX-0001YS13	578 307 0096	8- 14	AM	EG	N	C
PBRSR0004QSZ1	578 310 0061	9- 50	AD	DJ	N	C
PBRSR0005QSZZ	572 310 0315	14- 11	AK	EB		B
PBRSR0009QSZ1	578 310 0063	14- 11	AH	DX	N	B
PCAPH0009QSZZ	572 312 0053	7- 21	AC	DJ	N	C
PCASZ0010QSZZ	578 315 0058	4- 7	AL	EB		C
PCASZ0013QSZZ	578 315 0060	15- 12	AP	EQ	N	C
PCLR-0010QSZZ	578 318 0039	11- 65	AC	DJ	N	C
PCLR-0011QSZZ	578 318 0040	11- 71	AC	DJ	N	C
〃	578 318 0040	19- 60	AC	DJ	N	C
PCOVP0029QSZ3	578 323 0287	9- 5	AT	EZ	N	C
PCOVP0033QSZ1	578 323 0282	11- 26	AF	DJ	N	C
PCOVP0072QS12	578 323 0252	8- 11	AH	DX	N	D
PCOVP0080QSZZ	578 323 0203	8- 38	AE	DS	N	C
PCOVP0091QSZZ	578 323 0280	11- 60	AC	DJ	N	C
PCOVP0093QSZZ	578 323 0288	7- 32	AE	DS	N	C
PCOVP0097QSZZ	578 323 0283	11- 64	AH	DX	N	C
PCOVP0098QSZZ	578 323 0284	13- 1	AN	EG	N	C
PCUSF0334FCZZ	572 326 0296	4- 87	AP	EQ		C
PCUSS0009QSZZ	572 326 0377	5- 10	AA	DJ		C
PCUSS0023QSZZ	578 326 0029	1- 2	AV	FG		C
PCUSS0201FCZZ	572 326 0103	5- 14	AA	DD		C
PCUSU0203FCZZ	572 326 0021	4- 88	AE	DS		C
PDUC-0003QSZ1	578 332 0003	14- 44	AG	DX		C
PDUC-0006QSZZ	578 332 0006	12- 77	AF	DS	N	C
PFiLZ0004QSZZ	572 337 0363	14- 40	AM	EG		B
PFiLZ0008QSZZ	578 337 0023	14- 40	AL	EB		B
PFiLZ0012QSZZ	578 337 0099	2- 9	AC	DJ	N	C
PFTA-0018QSZZ	578 344 0030	11- 31	AE	DS	N	C
PGiDH0118QSZZ	578 345 0459	15- 2	AK	DX	N	C
PGiDM0032QSZZ	572 345 3239	15- 16	AE	DS	N	C
PGiDM0034QSZ3	578 345 0435	9- 20	AL	EB	N	C
PGiDM0040QSZ2	578 345 0460	14- 47	AK	DX	N	C
PGiDM0048QSE2	578 345 0451	18- 10	BB	FX	N	C
PGiDM0049QSE2	578 345 0452	18- 9	BA	FX	N	C
PGiDM0062QSZ1	578 345 0447	14- 45	AP	EQ	N	C
PGiDM0063QSZ1	578 345 0286	14- 47	AP	EQ		C
PGiDM0088QSZZ	578 345 0333	8- 1	AP	EQ	N	D
PGiDM0089QSZZ	578 345 0334	8- 4	AQ	EQ	N	D
PGiDM0104QSZZ	578 345 0456	10- 1	AK	DX	N	C
PGiDM0110QSZZ	578 345 0457	1- 19	AG	DX	N	C
PGiDM0111QSZZ	578 345 0458	1- 21	AG	DX	N	C
PGiDM0117QSZZ	578 345 0450	13- 60	AH	DX	N	C

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PGLSP0003QSZZ	572 348 0134	1- 8	BA	FX		B
PGUMM0013QSZZ	578 352 0053	11- 70	AG	DX	N	C
〃	578 352 0053	19- 62	AG	DX	N	C
PGUMS0002QSZZ	572 352 0307	4- 33	AL	EB		C
PGUMS0004QSZZ	572 352 0308	4- 21	AA	DJ		C
PHOG-1023CCZZ	505 355 5001	12- 18	AB	DD		C
PMiR-0164FCZZ	572 374 0221	4- 89	AP	EQ		B
PMLT-0002YSZ1	578 375 0185	8- 12	AC	DJ	N	C
PMLT-0005YSZZ	572 375 0893	8- 13	AB	DJ	N	C
PMLT-0006YSZZ	572 375 0894	8- 16	AB	DJ	N	C
PMLT-0018QSZ1	572 375 0882	7- 20	AC	DJ		C
PMLT-0027QSZZ	572 375 0897	14- 41	AC	DJ		C
PMLT-0033QSZZ	572 375 0913	4- 56	AC	DJ		C
PMLT-0039QSZZ	578 375 0145	1- 41	AC	DJ		C
PMLT-0084QSZZ	578 375 0184	5- 16	AB	DJ	N	C
PPiPP0005QSZZ	572 395 0210	7- 24	AM	EG	N	C
PPiPP0006QSZZ	572 395 0211	11- 16	AD	DJ	N	C
PPiPP0007QSZZ	572 395 0209	19- 7	AD	DJ		C
PPiPP0009QSZZ	572 395 0215	13- 24	AD	DJ		C
PPiPP0011QSZZ	572 395 0218	19- 45	AC	DJ		C
PPiPP0109FCZZ	572 395 0039	13- 6	AB	DD		C
〃	572 395 0039	19- 20	AB	DD		C
PPiPP0174FCZZ	572 395 0168	6- 34	AC	DJ		C
PREFL0005QSZZ	578 432 0005	4- 90	AH	DX	N	C
PREFL0006QSZZ	578 432 0006	4- 97	AK	DX	N	C
PRNGF0106FCZ2	578 399 0031	7- 16	AC	DJ		C
PRNGP0019FCZZ	572 399 0026	18- 14	AA	DD		C
PSEL-0001YSZ1	578 400 0204	8- 42	AE	DS	N	C
PSEL-0063QSZZ	578 400 0206	8- 37	AA	DJ	N	C
PSEL-0065QSZ1	578 400 0209	8- 5	AA	DJ	N	C
PSEL-0066QSZ1	578 400 0210	8- 6	AC	DJ	N	C
PSEL-0067QSZ4	578 400 0248	8- 7	AG	DX	N	C
PSEL-0074QSZZ	578 400 0212	8- 43	AC	DJ		C
PSEL-0105QSZZ	578 400 0235	8- 8	AA	DJ	N	C
PSEL-0114QSZZ	578 400 0233	8- 48	AC	DJ		C
PSEL-0115QSZZ	578 400 0234	8- 49	AD	DJ		C
PSEL-0129QSZZ	578 400 0239	7- 6	AF	DS		C
PSEL-0130QSZZ	578 400 0240	7- 5	AF	DS		C
PSHEP0035YSZZ	555 403 0001	8- 24	AB	DJ	N	C
PSHEP0050QSZ1	578 403 0505	15- 3	AD	DJ	N	C
PSHEP0051QSZZ	572 403 4386	15- 5	AB	DJ	N	C
PSHEP0052QSZZ	572 403 4387	15- 9	AB	DJ	N	C
PSHEP0135QSZ1	572 403 5212	7- 35	AB	DJ		C
PSHEP0262QSZZ	578 403 0644	8- 9	AC	DJ	N	C
PSHEP0324QSZZ	578 403 0713	8- 47	AC	DJ		C
PSHEZ0056QSZZ	572 403 4449	6- 49	AC	DJ		C
PSHEZ0065QSZZ	572 403 4467	12-113	AB	DJ		C
PSHEZ0099QSZZ	572 403 4444	13- 35	AC	DJ		C
PSHEZ0105QSZZ	572 403 4446	9- 46	AC	DJ		C
PSHEZ0109QSZZ	572 403 4448	12- 73	AC	DJ		C
〃	572 403 4448	4- 53	AC	DJ		C
PSHEZ0125QSZZ	572 403 4459	15- 19	AE	DS	N	C
PSHEZ0133QSZZ	572 403 4518	11- 23	AD	DJ		C
PSHEZ0135QSZZ	572 403 4519	12- 64	AC	DJ		C
PSHEZ0152QSZZ	572 403 4537	4- 58	AD	DJ		C
PSHEZ0171QSZZ	572 403 4618	18- 40	AD	DJ		C
PSHEZ0172QSZZ	572 403 4619	18- 33	AB	DJ		C
PSHEZ0173QSZZ	572 403 4620	18- 34	AB	DJ		C
PSHEZ0186QSZZ	578 403 0531	11- 57	AB	DJ		C
PSHEZ0187QSZZ	578 403 0532	11- 56	AB	DJ		C
PSHEZ0209QSZZ	578 403 0865	4- 60	AB	DJ	N	C
PSHEZ0217QSZZ	578 403 0636	4- 72	AC	DJ		C
PSHEZ0220QSZ1	578 403 0674	1- 9	AK	DX		C
PSHEZ0241QSZZ	578 403 0628	13- 37	AB	DJ		C
PSHEZ0273QSZZ	578 403 0654	4- 71	AB	DJ		C
PSHEZ0378QSZZ	578 403 0803	11- 28	AG	DX		C
PSHEZ0408QSZZ	578 403 0878	12- 69	AC	DJ		C
PSHEZ0410QSZZ	578 403 0859	13- 66	AC	DJ	N	C
PSHEZ0418QSZZ	578 403 0879	4- 63	AC	DJ	N	C
PSHEZ0420QSZZ	578 403 0880	4- 66	AC	DJ	N	C
PSHEZ0421QSZZ	578 403 0881	12- 67	AC	DJ	N	C
PSHEZ0426QSZZ	578 403 0882	4- 67	AB	DJ	N	C
PSHEZ0434QSZZ	578 403 0873	15- 20	AC	DJ	N	C
PSHEZ0435QSZZ	578 403 0874	15- 23	AA	DJ	N	C
PSHEZ0440QSZZ	578 403 0875	4- 52	AC	DJ	N	C
PSHEZ0441QSZZ	578 403 0876	16- 2	AD	DJ	N	C
PSHEZ0446QSZZ	578 403 0877	14- 75	AB	DJ	N	C
PSHT-0004QSZ1	578 407 0022	7- 27	AC	DJ		C
PSPAP0036QSZZ	578 413 0128	8- 46	AC	DJ		C
PSPAZ0011QSZZ	572 413 0682	5- 15	AD	DJ		C
PSPAZ0022QSZZ	578 413 0120	16- 20	AC	DJ		C

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PSPAZ0024QSZZ	578 413 0115	11- 55	AB	DJ	N	C
PSPAZ0040QSZZ	578 413 0132	15- 24	AB	DJ	N	C
PSPAZ0696FCZZ	572 413 0605	7- 23	AC	DJ		C
PSPŌ-0005QSZZ	572 415 0005	19- 53	AA	DJ		C
PSPŌ-0007QSZZ	572 415 0006	19- 54	AB	DJ		C
PSPŌ-0008QSZZ	572 415 0007	18- 35	AC	DJ		C
PSPŌ-0009QSZZ	572 415 0008	18- 36	AD	DJ		C
PSPŌ-0010QSZZ	572 415 0009	18- 37	AD	DJ		C
PSPŌ-0011QSZZ	578 415 0004	18- 38	AD	DJ		C
PSPŌ-0014QSZZ	572 415 0010	18- 39	AG	DS		C
PTME-0007GCZ1	578 420 0057	9- 19	AG	DS		C
PTME-0012QSZZ	572 420 0304	10- 15	AC	DJ		C
PTME-0014QSZZ	572 420 0310	9- 51	AK	DX		C
PTME-0016QSZZ	572 420 0308	19- 32	AD	DJ		C
PTME-0017QSZZ	572 420 0309	19- 30	AD	DJ		C
PTME-0020GCZ1	572 420 0313	9- 19	AF	DS	N	C
〃	572 420 0313	9- 37	AF	DS	N	C
PTME-0032QSZZ	578 420 0058	10- 8	AD	DJ	N	C
PTME-0178FCZZ	572 420 0181	13- 31	AC	DD		C
PTME-0179FCZZ	572 420 0182	13- 30	AC	DD		C
PTPE-0050QSZZ	578 423 0088	4- 79	AA	DJ	N	C
PTPE-0051QSZZ	578 423 0089	4- 70	AC	DJ	N	C
PWiR-0005QSZ1	578 427 0087	4- 3	AQ	EQ		C
PWiR-0006QSZZ	578 427 0088	4- 1	AQ	EQ		C
【Q】						
QACCBR421QCPZ	578 500 0057	12- 18	AZ	FQ	N	B
QACCDR614QCPZ	578 500 0055	12- 18	AS	EQ	N	B
QACCER624QCPZ	578 500 0058	12- 18	AW	FG	N	B
QACCJR614QCPZ	578 500 0056	12- 18	AW	FG	N	B
QACCR7421QCZZ	572 500 0086	12- 18	AY	FQ		B
QCNCM0999FCZZ	572 510 1004	10- 40	AC	DJ		C
QPLGA0001QCZZ	579 524 0004	12- 18	AN	EQ		B
QPLGA0002QCZZ	572 524 0019	12- 18	AN	EQ		B
QPLGA0003QCZZ	572 524 0007	12- 18	AN	EQ		B
QPLGA0009QCZZ	578 524 0005	12- 18	AS	EQ		B
QPLGA4171CCZZ	571 524 0009	12- 18	AN	EG		B
QSLP-0008QSZZ	572 537 0043	15- 14	AD	DJ	N	C
QSLP-0009QSZZ	572 537 0044	15- 11	AD	DJ	N	C
QSW-B0017QSZZ	572 530 0719	11- 1	AF	DS		B
〃	572 530 0719	19- 26	AF	DS		B
QSW-C9293QCZZ	572 530 0678	12- 51	AG	DX		B
QTANN0015FCZZ	572 532 0016	12- 49	AG	DS		C
【R】						
RCŌRF0006QSZZ	572 615 0074	19- 47	AL	EB		C
RCŌRF0018QSZZ	578 615 0055	12- 76	AR	EQ		C
〃	578 615 0055	4- 59	AR	EQ		C
RCŌRF0027QSZZ	578 615 0059	12- 74	AN	EG	N	C
RDENC0008QS11	578 685 0694	12- 11	BG	GT	N	E
RDENC0010QS11	578 685 0673	12- 8	BQ	LP	N	E
RDENC0010QS12	578 685 0672	12- 8	BN	LE	N	E
RDENC0010QS13	578 685 0674	12- 8	BN	LE	N	E
RDENC0010QSZZ	578 685 0695	12- 8	BN	LE	N	E
RDTCM0016QSZZ	578 618 0036	8- 31	AZ	FQ	N	B
RDTCT0005QSZ1	578 618 0038	9- 16	AN	EQ	N	B
RHET-0010QSZZ	578 623 0005	11- 36	AQ	EQ	N	B
RHET-0011QSZZ	578 623 0006	19- 50	AQ	EQ	N	E
RiNV-0001QSZZ	578 685 0696	4- 82	AX	FG	N	B
RLMPD0023QSZZ	578 626 0055	4- 91	AZ	FQ	N	B
RLMPU0014QSZZ	572 626 0616	9- 6	BA	FX		B
RLMPU0015QSZZ	572 626 0615	9- 6	BA	FX		B
RLMPU0016QSZZ	578 626 0047	9- 6	BA	FX		B
RLMPU0018QSZZ	578 626 0054	9- 6	BA	FX	N	B
RMŌTD0035QSZZ	578 630 0101	6- 5	AN	EG	N	B
RMŌTP0044QSPZ	578 630 0132	10- 7	BH	GX	N	B
RMŌTS0040QSZZ	578 630 0133	14- 59	AR	EQ	N	B
RMŌTS0041QSZZ	578 630 0134	4- 30	BA	FX	N	B
RMŌTS0042QSZZ	578 630 0135	12-102	AT	EZ	N	B
RPLU-0007QSZ1	578 647 0031	13- 28	AM	EG	N	B
RPLU-0008QSZ1	578 647 0032	10- 16	AM	EG	N	B
RPLU-0009QSZ1	578 647 0033	10- 10	AM	EG	N	B
RPLU-0012QSZ1	578 647 0029	19- 16	AM	EG	N	B
RPLU-0013QSZ1	578 647 0030	19- 33	AM	EG	N	B
RTHM-0001QSZZ	572 644 0031	9- 2	AM	EG		B
【S】						
SPAKA0134QSZZ	572 902 1474	17- 7	AE	DJ		D
SPAKA0463QSZZ	578 902 0347	17- 3	AV	FG	N	D
SPAKA0464QSZZ	578 902 0348	17- 2	AV	FG	N	D
SPAKA0465QSZZ	578 902 0349	17- 18	BE	GN	N	D
SPAKA0466QSZZ	578 902 0350	17- 13	AG	DX	N	D
SSAKA2343QCZZ	595 906 0012	17- 19	AA	DD		D
SSAKA3001CCZZ	502 906 0002	17- 14	AA	DD		D
SSAKZ0003QSZZ	578 906 0016	17- 5	AF	DS		D
【T】						
TCADS1409FCZZ	572 913 0842	17- 27	AF	DS		D
TCADZ0010QSZZ	572 913 0821	17- 8	AC	DJ		D
TCADZ0021QSZZ	572 913 0898	17- 26	AD	DJ		D
TCADZ0049QSZZ	572 913 0912	17- 27	AH	DX		D
TCADZ0098QSZZ	578 913 0110	17- 26	AF	DS		D
TCADZ0253QSZZ	578 913 0293	17- 26	AF	DS	N	D
TCADZ2001QCZA	579 913 0089	17- 27	AE	DS		D
TCAUH0007QSZZ	572 914 0676	6- 53	AD	DJ		D
TCAUH0018QSZZ	578 914 0029	6- 53	AE	DJ	N	D
TCAUH1047FCZZ	578 914 0027	1- 59	AD	DJ		D
TiNSE0908QSZZ	578 916 0795	17- 28	AR	EQ	N	D
TiNSE0909QSZZ	578 916 0797	17- 28	AW	FG	N	D
TiNSE0911QSZZ	578 916 0798	17- 28	AW	FG	N	D
TiNSE0933QSZZ	578 916 0796	17- 29	AH	DX	N	D
TiNSF0912QSZZ	578 916 0799	17- 28	AZ	FQ	N	D
TiNSF0934QSZZ	578 916 0800	17- 29	AN	EQ	N	D
TiNSG0913QSZZ	578 916 0801	17- 28	AZ	FQ	N	D
TiNSG0935QSZZ	578 916 0802	17- 29	AN	EQ	N	D
TiNSJ0907QSZZ	578 916 0805	17- 28	AW	FG	N	D
TiNSJ0932QSZZ	578 916 0806	17- 29	AK	EB	N	D
TiNSS0931QSZZ	578 916 0803	17- 28	AZ	FQ	N	D
TiNSS0952QSZZ	578 916 0804	17- 29	AN	EQ	N	D
TLABG0401QSZZ	578 917 0596	1- 52	AR	EQ		D
TLABG0408QSZZ	572 917 3678	1- 49	AD	DJ		D
TLABH0024ESZZ	578 917 0528	11- 76	AK	DX		D
TLABH0061QSZZ	572 917 3359	9- 39	AE	DJ		D
TLABH0062QSZZ	572 917 3360	9- 39	AE	DJ		D
TLABH0064QSZ1	572 917 3369	16- 8	AC	DJ		D
TLABH0065QSZ2	578 917 0624	17- 22	AG	DX	N	D
TLABH0066QSZ2	578 917 0620	13- 44	AE	DJ	N	D
TLABH0068QSZ1	578 917 0468	17- 21	AF	DS		D
TLABH0069QSZ2	578 917 0630	17- 22	AG	DX	N	D
TLABH0078QSZ1	572 917 3418	17- 21	AE	DS		D
TLABH0103QSZ1	578 917 0625	1- 30	AB	DJ	N	D
TLABH0104QSZ1	578 917 0626	1- 31	AB	DJ	N	D
TLABH0116QSZ1	578 917 0621	17- 22	AN	EG	N	D
TLABH0117QSZ1	578 917 0627	17- 22	AP	EQ	N	D
TLABH0364QSZZ	578 917 0573	9- 57	AA	DJ	N	D
TLABH0457QSZZ	578 917 0622	1- 44	AG	DX	N	D
TLABH0458QSZZ	578 917 0631	1- 44	AF	DS	N	D
TLABH0460QSZZ	578 917 0632	17- 20	AD	DJ	N	D
TLABH0482QSZZ	578 917 0623	1- 51	AE	DS	N	D
TLABH4771FCZZ	578 917 0599	1- 58	AF	DS		D
TLABM0520QSZZ	578 917 0633	1- 54	AE	DJ	N	D
TLABS3760FCZZ	572 917 2881	17- 30	AC	DJ		D
TLABS4070FCZZ	572 917 3093	1- 56	AC	DJ		D
TLABS4770FCZZ	578 917 0600	1- 57	AD	DJ		D
TLABZ0058QSZZ	572 917 3341	1- 49	AD	DJ		D
TLABZ0105RSZZ	572 917 3589	1- 58	AD	DJ		D
TLABZ4047FCZZ	572 917 3041	1- 52	AC	DJ		D
TLABZ4312FCZZ	572 917 3321	1- 52	AE	DS		D
TLABZ4335FCZZ	572 917 3385	4- 96	AB	DJ		D
TTAG-0004QSZZ	572 921 0003	16- 19	AC	DJ		D
〃	572 921 0003	17- 11	AC	DJ		D
【U】						
UBAGF0018YSZ1	572 931 0023	17- 6	AF	DS		D
UCLEZ0009QSZ1	578 704 0034	7- 3	AQ	EQ		C
【V】						
VHPGP1A71A1-1	572 574 0114	19- 15	AG	DX		B
VHPGP1S73P+-1	578 568 0009	11- 61	AF	DS		B
VRH-ST2HB157K	572 581 1817	9- 49	AD	DJ		C
【X】						
XBBSD30P04000	541 970 5027	10- 17	AA	DD		C
XBBSD30P06000	541 970 5028	19- 34	AA	DD		C
〃	541 970 5028	9- 22	AA	DD		C
XBBSD30P08000	571 970 0241	4- 23	AA	DD		C
XBBSD30P10000	585 970 0050	13- 34	AA	DD		C
XBBSD40P08000	572 970 0627	10- 6	AA	DD		C
XBBSD40P10000	577 970 0051	8- 10	AA	DD		D
XBBSE30P06000	595 970 0127	19- 46	AA	DD		C
XBPBZ30P03000	571 970 0433	8- 29	AB	DD		C
XBPSC30P06ES0	572 970 1939	6- 9	AA	DD		C
XBPSC30P06K00	541 970 0046	15- 22	AA	DD		C
XBPSD20P09000	571 970 0122	12- 71	AA	DD		C
XBPSD30P05K00	541 970 5005	4- 29	AA	DD		C
XBPSD30P06KS0	541 970 0016	8- 35	AA	DD		C
〃	541 970 0016	9- 1	AA	DD		C
XBPSD30P08KS0	541 970 1097	12- 10	AA	DD		C
〃	541 970 1097	9- 9	AA	DD		C

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XBPSD30P10KS0	541 970 0017	6- 42	AB	DD		C
〃	541 970 0017	9- 15	AB	DD		C
XBPSD40P06K00	541 970 1038	4- 5	AA	DD		C
XBPSD40P06KS0	502 970 0010	5- 3	AA	DD		C
XBPSD40P16KS0	541 970 1096	4- 31	AA	DD		C
XBPSN40P06K00	595 970 0189	12- 17	AA	DD		C
XEBSD20P06000	572 970 0589	14- 42	AA	DD		C
XEBSD30P06000	578 970 0102	12- 59	AA	DD		C
〃	578 970 0102	15- 17	AA	DD		C
〃	578 970 0102	6- 23	AA	DD		C
〃	578 970 0102	6- 31	AA	DD		C
〃	578 970 0102	9- 21	AA	DD		C
XEBSD30P08000	578 970 0105	11- 11	AA	DD		C
〃	578 970 0105	12- 66	AA	DD		C
〃	578 970 0105	13- 38	AA	DD		C
〃	578 970 0105	13- 52	AA	DD		C
〃	578 970 0105	14- 1	AA	DD		C
〃	578 970 0105	14- 50	AA	DD		C
〃	578 970 0105	16- 12	AA	DD		C
〃	578 970 0105	2- 16	AA	DD		C
〃	578 970 0105	6- 16	AA	DD		C
〃	578 970 0105	8- 19	AA	DD		C
〃	578 970 0105	8- 2	AA	DD		C
XEBSD30P10000	578 970 0106	12- 27	AA	DD		C
〃	578 970 0106	3- 7	AA	DD		C
〃	578 970 0106	6- 18	AA	DD		C
〃	578 970 0106	6- 6	AA	DD		C
〃	578 970 0106	7- 1	AA	DD		C
〃	578 970 0106	8- 39	AA	DD		C
XEBSD30P18000	578 970 0187	12- 46	AA	DD		C
XEBSD40P12000	578 970 0084	11- 22	AA	DD		C
〃	578 970 0084	12- 15	AA	DD		C
〃	578 970 0084	12- 55	AA	DD		C
XEBSE30P08000	595 970 0121	13- 43	AA	DD		C
〃	595 970 0121	15- 1	AA	DD		C
〃	595 970 0121	19- 51	AA	DD		C
〃	595 970 0121	2- 21	AA	DD		C
XEBSE30P10000	595 970 0122	13- 18	AA	DD		C
XEBSE30P12000	595 970 0345	11- 68	AA	DD		C
〃	595 970 0345	19- 59	AA	DD		C
XEBSE40P10000	572 970 0575	12- 3	AA	DD		C
〃	572 970 0575	1- 24	AA	DD		C
〃	572 970 0575	1- 4	AA	DD		C
XEBSE40P12000	572 970 1447	18- 7	AA	DD		C
XEBSE40P14000	572 970 1506	11- 49	AA	DD		C
XEBSF30P06000	572 970 0574	4- 93	AA	DD		C
XEPSD23P12000	595 970 0146	6- 1	AA	DD		C
XEPSD30P08X00	595 970 0136	18- 27	AA	DD		C
XEPSD30P14X00	572 970 1926	6- 64	AA	DD		C
XEPSD40P12000	572 970 0582	11- 7	AA	DD		C
XEPSD40P30000	572 970 0583	12- 54	AA	DD		C
XHBS230P06000	572 970 1971	6- 52	AA	DD		C
XHBSD30P06000	541 970 1017	1- 20	AA	DD		C
〃	541 970 1017	12- 13	AA	DD		C
〃	541 970 1017	4- 6	AA	DD		C
〃	541 970 1017	6- 65	AA	DD		C
〃	541 970 1017	9- 4	AA	DD		C
XHBSD30P08000	578 970 0060	10- 2	AA	DD		C
〃	578 970 0060	12-101	AA	DD		C
〃	578 970 0060	12- 29	AA	DD		C
〃	578 970 0060	12- 32	AA	DD		C
〃	578 970 0060	12- 43	AA	DD		C
〃	578 970 0060	14- 73	AA	DD		C
〃	578 970 0060	9- 62	AA	DD		C
XHBSD30P10000	572 970 0530	3- 3	AA	DD		C
XHBSD30P14000	572 970 1532	12- 26	AA	DD		C
〃	572 970 1532	3- 5	AA	DD		C
XHBSD30P16000	595 970 0166	3- 11	AA	DD		C
XHBSE30P08000	595 970 0163	1- 17	AA	DD		C
〃	595 970 0163	19- 56	AA	DD		C
〃	595 970 0163	2- 18	AA	DD		C
XHBSE30P14000	572 970 1430	18- 28	AA	DD		C
XHBSF30P05000	594 970 0287	14- 60	AA	DD		C
XPSSJ20-07000	572 218 0379	13- 8	AA	DD		C
〃	572 218 0379	3- 24	AA	DD		C
〃	572 218 0379	6- 36	AA	DD		C
XPSSJ20-10000	572 218 0135	14- 36	AA	DD		C
XRESP30-06000	541 399 5002	14- 62	AA	DD		C
〃	541 399 5002	8- 41	AA	DD		C
〃	541 399 5002	9- 29	AA	DD		C
XRESP40-05000	572 399 0053	4- 20	AA	DD		C

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
			Ex.	Ja.		
XRESP40-06000	509 399 5001	10- 12	AA	DD		C
〃	509 399 5001	11- 13	AA	DD		C
〃	509 399 5001	12-107	AA	DD		C
〃	509 399 5001	12-115	AA	DD		C
〃	509 399 5001	13- 4	AA	DD		C
〃	509 399 5001	14- 34	AA	DD		C
〃	509 399 5001	14- 53	AA	DD		C
〃	509 399 5001	16- 7	AA	DD		C
〃	509 399 5001	19- 18	AA	DD		C
〃	509 399 5001	3- 23	AA	DD		C
〃	509 399 5001	6- 27	AA	DD		C
XRESP50-06000	572 399 0063	11- 18	AA	DD		C
〃	572 399 0063	14- 12	AA	DD		C
〃	572 399 0063	19- 4	AA	DD		C
〃	572 399 0063	4- 38	AA	DD		C
〃	572 399 0063	8- 22	AA	DD		C
XRESP60-08000	541 399 5003	6- 39	AA	DD		C
XRESP70-08000	571 399 0027	11- 43	AA	DD		C
〃	571 399 0027	4- 36	AA	DD		C
XUBUZ30P08000	572 970 0514	8- 32	AA	DD		C
XWHSD20-04043	596 990 0134	12- 72	AA	DD		C
XWHSD30-05070	572 990 0246	9- 54	AA	DD		C
XWHSD30-05080	500 990 0026	12- 48	AA	DD		C
XWHSD30-08100	505 990 5001	16- 13	AA	DD		C
XWHSD40-08100	541 990 0043	12- 57	AA	DD		C
〃	541 990 0043	12- 65	AA	DD		C
XWHSD60-10000	572 990 0490	19- 48	AA	DD		C
XWSSD30-07000	541 990 0007	12- 47	AA	DD		C
XWSSD40-10000	571 990 0071	12- 56	AA	DD		C

注 意

・電池を正しく交換しないと爆発を起こす危険がある。

・機器製造者が指定したものと同一型名のもの、又は、
その同等の電池とのみ交換すること。

・使用済みの電池は、製造者の指示に従って処分すること。

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää,jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s'il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type on d'un type équivalent recommandé par
le constructeur.
Mettre au rébut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekornmenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
Instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anwerisugen.

CAUTION FOR BATTERY DISPOSAL

(For USA,CANADA)
Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

SHARP

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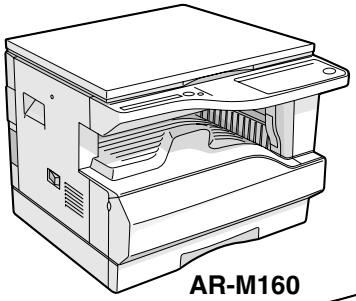
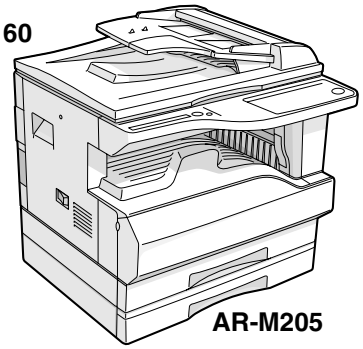
2003 June Printed in Japan ⓣ

SHARP SERVICE MANUAL

CODE : 00ZARM205/A1E



AR-M160



AR-M205

(With RSPF installed)

DIGITAL COPIER

MODEL AR-M160 AR-M205

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Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

CAUTION

This product is a class 1 laser product that complies with 21CFR 1040.10 and 1040.11 of the CDRH standard and IEC825. This means that this machine does not produce hazardous laser radiation. The use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
This laser radiation is not a danger to the skin, but when an exact focusing of the laser beam is achieved on the eye's retina, there is the danger of spot damage to the retina.
The following cautions must be observed to avoid exposure of the laser beam to your eyes at the time of servicing.

1) When a problem in the laser optical unit has occurred, the whole optical unit must be exchanged as a unit, not as individual parts.
2) Do not look into the machine with the main switch turned on after removing the developer unit, toner cartridge, and drum cartridge.
3) Do not look into the laser beam exposure slit of the laser optical unit with the connector connected when removing and installing the optical system.
4) The middle frame contains the safety interlock switch.
   Do not defeat the safety interlock by inserting wedges or other items into the switch slot.

Warning!
This product is a class A product.
If it is operated in households, offices or similar surroundings, it can produce radio interferences at other appliances, so that the user has to take adequate countermeasures.

CLASS 1 LASER PRODUCT

LASER KLASSE 1

LUOKAN 1 LASERLAITE

KLASS 1 LASERAPPARAT

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING
OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

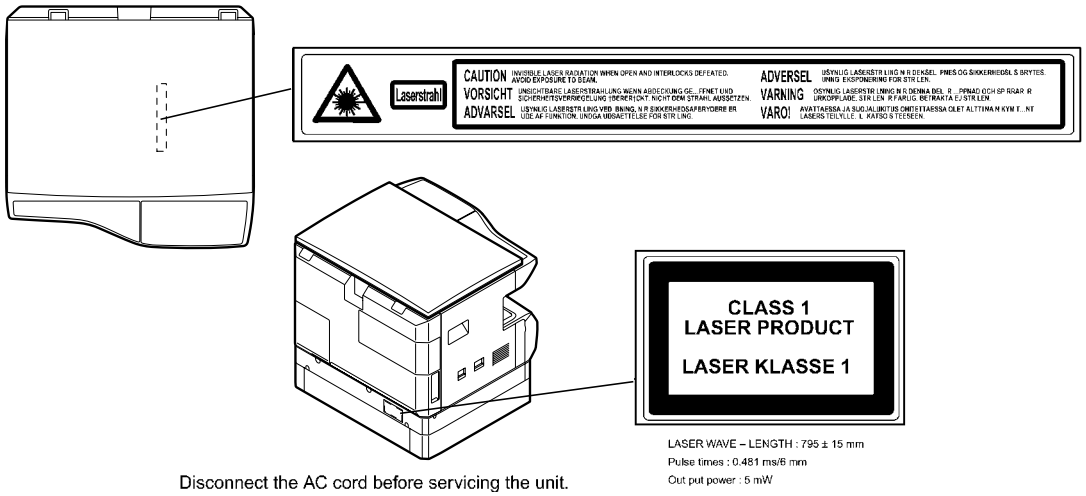
CAUTION
INVISIBLE LASER RADIATION,
WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

VORSICHT
UNSICHTBARE LASERSTRAHLUNG,
WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.

VARO !
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.

ADVARSEL
USYNLIG LASERSTRÅLNING VED ÅBNING, NÅR SIKKERHEDSBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLNING.

VARNING !
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN. – STRÅLEN ÄR FARLIG.



LASER WAVE – LENGTH : 795 ± 15 mm
Pulse times : 0.481 ms/6 mm
Out put power : 5 mW

Disconnect the AC cord before servicing the unit.

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[1] GENERAL

1. Note for servicing

Pictogram

The label (⚠ ♨) in the fusing area of the machine indicates the following:

⚠ : Caution, risk of danger

♨ : Caution, hot surface

A. Warning for servicing

•The fusing area is hot. Exercise care in this area when removing misfed paper.

•Do not look directly at the light source. Doing so may damage your eyes.

B. Cautions for servicing

•Do not switch the machine rapidly on and off. After turning the machine off, wait 10 to 15 seconds before turning it back on.

•Machine power must be turned off before installing any supplies.

•Place the machine on a firm, level surface.

•Do not install the machine in a humid or dusty location.

•When the machine is not used for a long time, for example, during prolonged holidays, turn the power switch off and remove the power cord from the outlet.

•When moving the machine, be sure to turn the power switch off and remove the power cord from the outlet.

•Do not cover the machine with a dust cover, cloth or plastic film while the power is on. Doing so may prevent heat dissipation, damaging the machine.

•Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure.

•The socket-outlet shall be installed near the machine and shall be easily accessible.

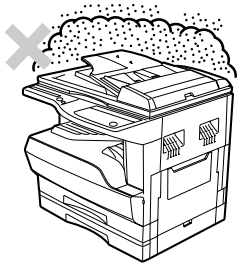
C. Note for installation place

Improper installation may damage the machine. Please note the following during initial installation and whenever the machine is moved.

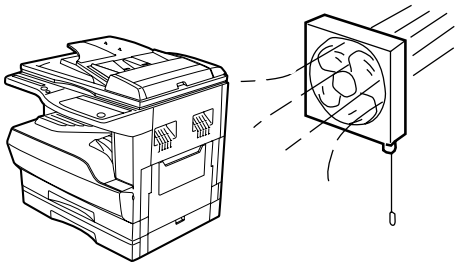
Caution : If the machine is moved from a cool place to a warm place, condensation may form inside the machine. Operation in this condition will cause poor copy quality and malfunctions. Leave the machine at room temperature for at least 2 hours before use.

Do not install your machine in areas that are:

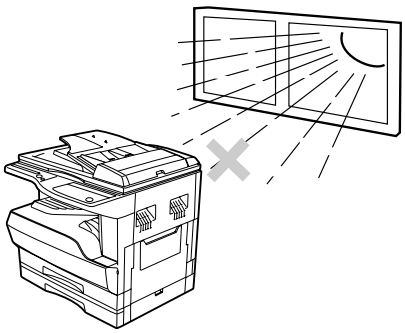
•damp, humid, or very dusty



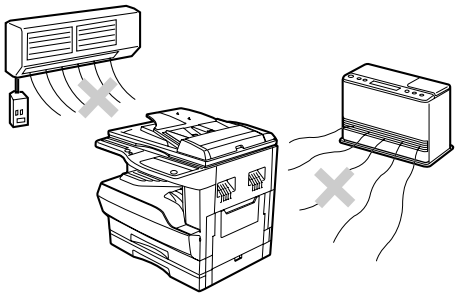
•poorly ventilated



•exposed to direct sunlight



•subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.

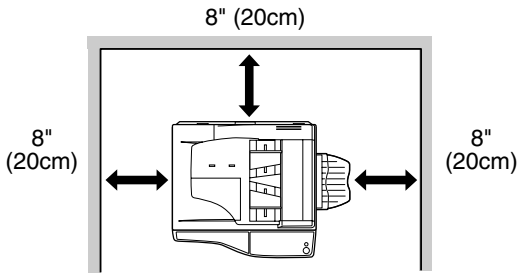


The machine should be installed near an accessible power outlet for easy connection and disconnection.

Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements. Also make certain the outlet is properly grounded.

Note : Connect the machine to a power outlet which is not used for other electric appliances. If a lighting fixture is connected to the same outlet, the light may flicker.

Be sure to allow the required space around the machine for servicing and proper ventilation.



[2] SPECIFICATIONS

1. Copy mode

A. Type

Type	Desk-top
Paper exit	Wing less

B. Machine composition

AR-M160	16-CPM multi function model
AR-M205	20-CPM multi function model

(1) Option

Machine	Model	
250 sheets paper feed unit	AR-D24	
250 sheets x 2 paper feed unit	AR-D25	
SPF	AR-SP6	AR-M160 only
RSPF	AR-RP6	AR-M205 only
Original cover	AR-VR5	
Dual function board	AR-EB7	
Network expansion kit	AR-NB2	Available from October
PS3 expansion kit	AR-PK1/N	option for AR-NB2
256MB optional memory	AR-SM5	

C. Copy speed

(1) Scan One Print many

AR-M205 / M160	Available

Condition: Copy speed in the normal copy from all the paper feed ports including the manual paper feed port.

(2) Continuous copy speed (Sheets/min)

a. AR-M160

Paper size		Normal	Enlargement (200%)	Reduction (50%)
AB system	A3	9	9	9
	B4	10	10	10
	A4	16	16	16
	A4R	12	12	12
	B5	16	16	16
	B5R	14	14	14
Inch system	11" X 17"	9	9	9
	8.5" X 14"	10	10	10
	8.5" X 13"	11	11	11
	8.5" X 11"	16	16	16
	8.5" X 11"R	12	12	12
	8.5" X 5.5"	16	16	16

b. AR-M205

Paper size		Normal	Enlargement (200%)	Reduction (50%)
AB system	A3	11	11	11
	B4	12	12	12
	A4	20	20	20
	A4R	14	14	14
	B5	20	20	20
	B5R	16	16	16
Inch system	11" X 17"	10	10	10
	8.5" X 14"	12	12	12
	8.5" X 13"	12	12	12
	8.5" X 11"	20	20	20
	8.5" X 11"R	15	15	15
	8.5" X 5.5"	20	20	20

D. First copy time

(1) Basic speed

First copy time	7.2sec (A4, 8.5" X 11"/1st tray/with OC) (Polygon motor ready state)

E. Document

Max. document size	A3, 11" X 17"
Document reference position	Left side center
Detection (Platen)	None
Detection size	A3, B4, A4, A4R, B5, B5R, A5 11" X 17", 8.5" X 14", 8.5" X 13", 8.5" X 11", 8.5" X 11"R, 8.5" X 5.5" (8.5" X 13" is detected by key input.)

(1) SPF/R-SPF

Standard/Option	Option SPF: AR-SP6 (AR-M160 only) RSPF: AR-RP6 (AR-M205 only)
Document load capacity	40 sheets (Thickness 4mm or less)
Document size (Max. ~ Min.)	A3 ~ A5 11" x 17" ~ 8.5" x 5.5" (8.5" x 5.5", duplex is inhibited.)
Document replacement speed	AR-M205:20 sheets/min AR-M160:16 sheets/min (A4 , 8.5" x 11" normal copy)
Document set/Paper feed direction	Face up, Center reference, Paper feed from the top
Document weight	56 ~ 90g/m², 15 ~ 24 lbs
Document size detection	On the document feed tray
Document mixture	Copy mode: Not Available

F. Paper feed

Copy size (Max. ~ Min.)	A3 ~ A6 11" x 17" ~ 8.5" x 5.5"	
Paper feed system	1 cassette + Multi manual paper feed	
Paper feed capacity	AR-M205	250 x 2 (Paper feed tray) + 100 (Multi bypass feed tray)
	AR-M160	250 x 1 (Paper feed tray) + 100 (Multi bypass feed tray)
Remaining quantity detection	Cassette section	Only empty detection available
	Manual tray	Only empty detection available

(1) Paper feed section of the copier

Paper feed size	A3, B4, A4, A4R, B5, B5R, A5 11" x 17", 8.5" x 14", 8.5" x 13", 8.5" x 11", 8.5" x 11"R, 8.5" x 5.5" (For A5 and 8.5" x 5.5", only No. 1 tray available.)
Side front	Front
Paper feed capacity	250 sheets (56 ~ 90g/m² equivalent) (15 ~ 21 lbs.)
Detection	Paper empty detection available, size detection (by key input)
Weight	56 ~ 90g/m² (15 lbs. ~ 21 lbs.)
Special paper	Recycled paper

(2) Manual paper feed section

Paper feed size	A3 ~ A6, 11" x 17" ~ 8.5" x 5.5"
Paper feed capacity	100 sheets(56 ~ 80g/m²)
Detection	Size detection not available, paper empty detection available
Weight	56 ~ 200g/m² (15 ~ 34 lbs.)
Special paper	Recycled paper, OHP film, labels
Paper feed	Single except for recycled paper

(3) Option paper feed unit

	1-step paper feed unit	2-step paper feed unit
Model	AR-D24	AR-D25
Paper feed size	A3, B4, A4, A4R, B5, B5R 11" x 17", 8.5" x 14", 8.5" x 13", 8.5" x 11", 8.5" x 11"R	
Capacity (56 ~ 80gm²)	About 250 sheets x 1 step	About 250 sheets x 2 steps
Paper weight	56 ~ 90 g/m² (15 ~ 21 lbs.)	
Moisture preserving heater	None	
Paper empty detection	Available	
Paper size setting	User setting Paper size detection:None	
External dimensions (W x D x H)	590 x 471 x 88mm	590 x 471 x 173.5mm
Weight	About 4.7kg	About 10kg
Special paper	Recycled paper	
Power	Supplied from the machine	

G. Job speed

S-S (1st step)	100% (document replacement rate)

Condition:With SPF/RSPF A4/Letter Normal 1cassette

H. Multi copy

Max. number of multi copy	999 sheets

I. Warm-up time

Warm-up time	45 sec
Pre-heat	Available
Jam recovery	Within 45 sec

J. Copy magnification ratio

Fixed magnification ratio	AB system: 50, 70, 81, 86, 100, 115, 122, 141, 200%
	Inch system: 50, 64, 77, 95, 100, 121, 129, 141, 200%
Zooming	25 ~ 400% SPF/RSPF(50 ~ 200%)
Independent zooming(vertical)	Available (25 ~ 400%) SPF/RSPF(50 ~ 200%)
Independent zooming (horizontal)	Available (25 ~ 400%) SPF/RSPF(50 ~ 200%)

K. Print density

Density mode	Auto / Text / Photo
No. of manual adjustment	5 steps (Text / Photo)
Resolution	Writing: 600 x 600dpi Reading: 600 (main) x 600 (sub) (PHOTO mode) 600 (main) x 300 (sub) (AE mode)
Gradation	Reading: 256 gradations Writing: Binary
Toner save mode	Set by the user program

L. Void width

Void area	Lead edge 1 ~ 4mm, rear edge 4mm or less, both sides 4mm or less
Image loss	4mm or less

M. Auto duplex

Standard/ Option	Standard provision (AR-M205 only) (D → D / D → S enable only when RSPF is installed) Not available for AR-M160

N. Paper exit / finishing

Paper exit section capacity	Face down 250 sheets
Full detection	None
Finishing	Dual function board: Option (AR-EB7)
Electronic sort capacity	A4 (8.5" x 11") standard document 100 sheets
Offset function	Available (by the shifter)
Staple function	None

(1) Electronic sort board (Option)

Electronic sort	Sorting	100 sheets of A4 standard documents
	Grouping	100 sheets of A4 standard documents
Rotation copy	If there is paper of same size as the document, the image is rotated to copy even though the paper is set in the different direction from the document direction.	
2 in 1, 4 in 1	Copies of 2 pages or 4 pages are integrated into one surface. Divided by solid lines, (Selectable by the user program.)	
Edge erase	Images surrounding the document are erased when copying. (Adjustable in 5 ~ 20mm by the user program.)	
Center erase	The image at the center is erased when copying. (Adjustable in 5 ~ 20mm by the user program.)	
Margin shift	Binding margin is made at the left edge of the set documents. (Adjustable in 5 ~ 20mm by the user program.)	
Memory for electronic sort	16MB	
* Memory loading capacity	A4 standard 100 pages	
Memory expansion	DIMM memory slot x 1, max. 256MB x 1 slot + 16MB (Max. 272MB in total)	
USB2.0	Standard provision of E-sort	
SPLC (JBIG-GDI)	Supported when E-sort is installed.	
ROPM	Supported when E-sort is installed.	

O. Additional functions

APS	O	
AMS	O	
Auto tray switching	O	
Memory copy	O	
Rotation copy	△	
E-sort	O	Option
Rotation sort	X	
Independent zooming	O	
1 set 2 copy	O	Enlargement invalid/SPF invalid (Patent rotation)
Binding margin	△	Default AB series: 10mm (5, 10, 15, 20mm) Inch series: 1/2 inch (1/4, 1/2, 3/4, 1 inch)
Edge erase	△	Default AB series: 10mm (5, 10, 15, 20mm) Inch series: 1/2 inch (1/4, 1/2, 3/4, 1 inch)
Center erase	△	Default AB series: 10mm (5, 10, 15, 20mm) Inch series: 1/2 inch (1/4, 1/2, 3/4, 1 inch)
Black/white reverse	X	
2in1/4in1	△	
Sorter	O	Offset function (Shifter) provided
Preheating	O	The conditions are set by the user program.
Auto shut-off	O	The conditions are set by the user program.
User programming	O	
Total counter	O	Supports Total counter, Scan counter, and Copy counter.
Coin vendor support	O	(Supports I/F only.)
Auditor support	O	(Supports I/F only.)
Duplex	O	(Standard provision for the model of 20-sheet model only)
Toner save	O	(Set according to the destination)
Department management	O	(Copy: 20 Dept.)

O : Available △ :Installation of the option is required.
X : Not available

P. Other specifications

Photoconductor type	OPC (Organic Photo Conductor)
Photoconductor drum dia.	30mm
Copy lamp	Cold cathode fluorescent lamp (CCFL)
Developing system	Dry 2-component magnetic brush development
Charging system	Saw teeth charging
Transfer system	(+) DC corotron
Separation system	(-) DC corotron
Fusing system	Heat roller
Cleaning system	Contact blade

Q. Package form

Body	Body / Accessories

R. External view

External dimensions (W x D x H)	590 x 577 x 520 mm(AR-M205) 590 x 577 x 470 mm(AR-M160)
Occupying area (W x D)	590 x 531mm (When the manual tray is installed.)
Weight	About 31.3kg (AR-M160) About 35.1kg (AR-M205)

S. Power source

Voltage	AC120V, 220V, 230V, 240V ±15%
Frequency	50/60Hz common

T. Power consumption

Max. power consumption	1200W

* EnergyStar conformity

Average power consumption in operation	Less than 550W
Power consumption when standby	5W(Not include option)
Energy consumption efficiency	Less than 25W

U. Digital performance

Resolution	Reading	600 x 600dpi (PHOTO mode) 600 x 300dpi (AE mode)
	Writing	600 x 600dpi
Gradation	Reading	256 gradations
	Writing	Binary
Memory	Simplex:16MB Duplex:32MB	
Hard disk	None	

V. Printing function

Print speed	<Standard>12ppm (With the AR-EB7 installed) 16ppm (AR-M160) / 20ppm (AR-M205)
Data resolution	600dpi
Option memory	16MB (with the AR-EB7 installed) 256MB (AR-SM5) can be added to the AR-EB7.
Printer driver	Two drivers for the case when the AR-EB7 is installed and when it is not are automatically installed by plug & play. <Standard> SHARP GDI driver <with the AR-EB7 installed> SPLC driver

W. Scanner function

Type	Flat bed color scanner
Scan system	Document table/document feed unit
Light source	White CCFL
Resolution	Basic 600 x 1200dpi Set range: 50 ~ 9600dpi
Document	Sheet/Book
Effective scan range	OC/SPF: about 297(length) x 431(width) mm
Scan speed	OC/SPF: 2.88msec/line (Color)
Input data	1bit or 12bit
Output data	1bit or 8bit
Scan color	Black and white binaryGray scaleFull color
Protocol	TWAIN/WIA (XP only) / STI
Interface	USB1.1 USB2.0 (Option support: High-speed mode/Full speed mode (Switched by the user program.)) (Supported when E-sort is installed)
Scanner utility	Sharp Desk/Button Manager
Drop-out color	Provided
Scanner button	Provided (6)
Supported OS	Windows98/ME/2000/XP
Void area	Lead edge/rear edge (2.5mm) on the driver side Left/right: 3.0mm
WHQL support	Yes

[3] CONSUMABLE PARTS

1.Supply system table

A.USA/CANADA/Latin America

NO	Name	Content		Life	Product name	Remark
1	Toner cartridge(Black) <With IC>	Toner (Toner: Net Weight 537g) Vinyl bag	x10 x10	160K	AR-202MT	Life setting by A4 6% document
2	Developer	Developer (Developer : Net Weight 400g)	x10	500K	AR-202MD	
3	Drum kit	Drum Drum fixing plate	x1 x1	50K	AR-202DR	

B. Middle East/Africa/Taiwan/Philippine

NO	Name	Content		Life	Product name	Remark
1	Toner cartridge(Black) <With IC>	Toner (Toner: Net Weight 537g) Vinyl bag	x10 x10	160K	AR-202ET	Life setting by A4 6% document
2	Developer	Developer (Developer : Net Weight 400g)	x10	500K	AR-202CD	
3	Drum kit	Drum Drum fixing plate	x1 x1	50K	AR-202DR	

C. Europe/East Europe

NO	Name	Content		Life	Product name	Remark
1	Toner cartridge(Black) <With IC>	Toner (Toner: Net Weight 537g) Vinyl bag	x10 x10	160K	AR-202LT	Life setting by A4 6% document
2	Developer	Developer (Developer : Net Weight 400g)	x10	500K	AR-202LD	
3	Drum kit	Drum Drum fixing plate	x1 x1	50K	AR-202DM	

D. Asia

NO	Name	Content		Life	Product name	Remark
1	Toner cartridge(Black) <With IC>	Toner (Toner: Net Weight 537g) Vinyl bag	x10 x10	160K	AR-202CT	Life setting by A4 6% document
2	Developer	Developer (Developer : Net Weight 400g)	x10	500K	AR-202CD	
3	Drum kit	Drum Drum fixing plate	x1 x1	50K	AR-202DR	

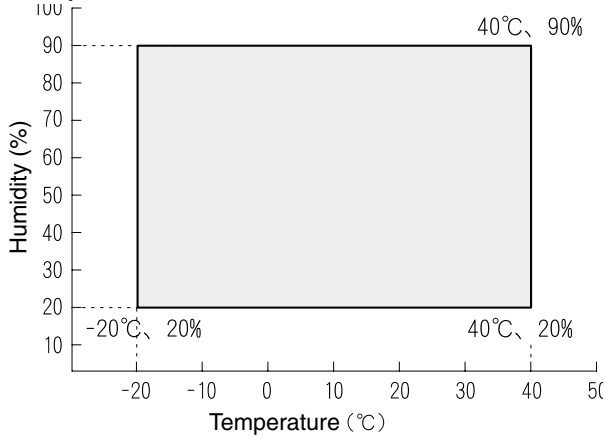
E.Hong Kong/China

NO	Name	Content		Life	Product name	Remark
1	Toner cartridge(Black) <With IC> (Hong Kong only)	Toner (Toner: Net Weight 645g) Vinyl bag	x10 x10	160K	AR-202CT-C	Life setting by A4 6% document
2	Toner cartridge(Black) <With IC> (China only)	Toner (Toner: Net Weight 645g) Vinyl bag	x1 x1	19K	AR-203ST-C	Life setting by A4 6% document
3	Developer	Developer (Developer : Net Weight 4500)	x10	500K	AR-202CD-C	
4	Drum kit	Drum Drum fixing plate	x1 x1	50K	AR-202DR-C	

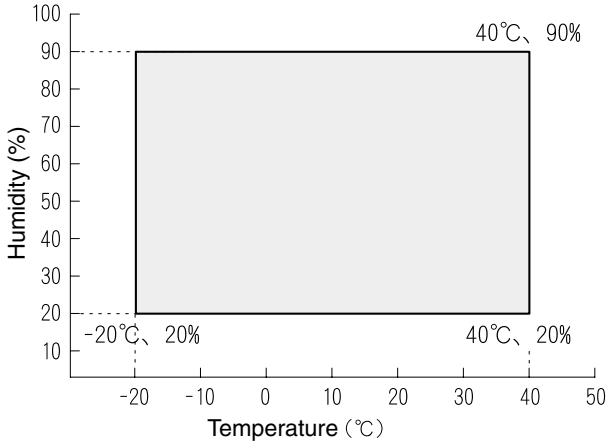
2. Environmental conditions

A. Transport conditions

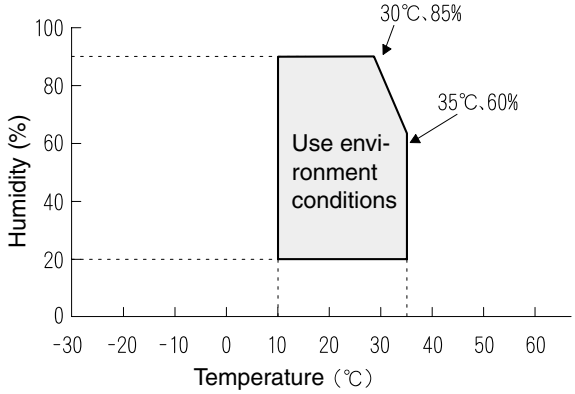
(1) Transport conditions



(2) Storage conditions



B. Use conditions



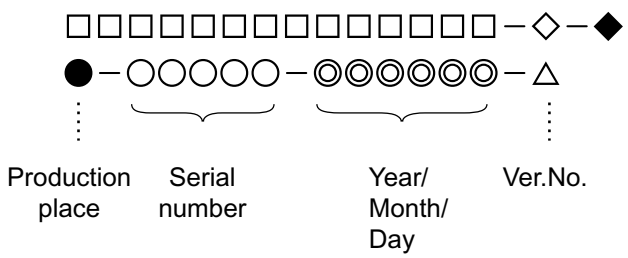
C. Life(packed conditions)

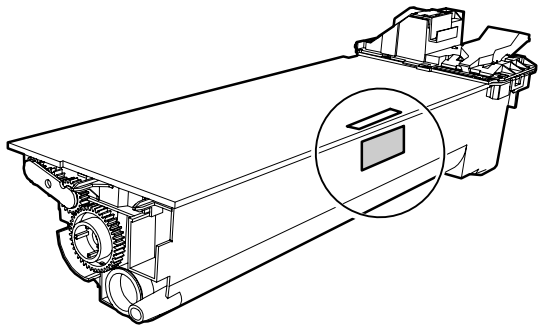
Photoconductor drum (36 months from the production month)
Developer, toner (24 months from the production month)

3. Production number identification

<Toner cartridge>

The label on the toner cartridge shows the date of production.





<Drum cartridge>

The lot number, printed on the front side flange, is composed of 6 digits, each digit showing the following content:

1	2	3	4	5	6

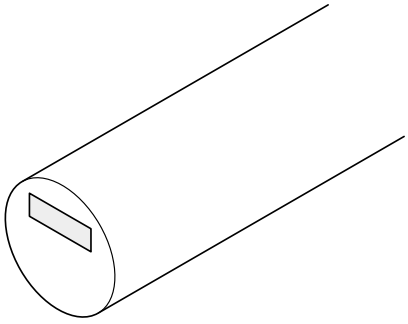
1 Alphabet
Indicates the model conformity code. A for this model.

2 Number
Indicates the end digit of the production year.

3 Number or X, Y, Z
Indicates the month of packing.
X stands for October, Y November, and Z December.

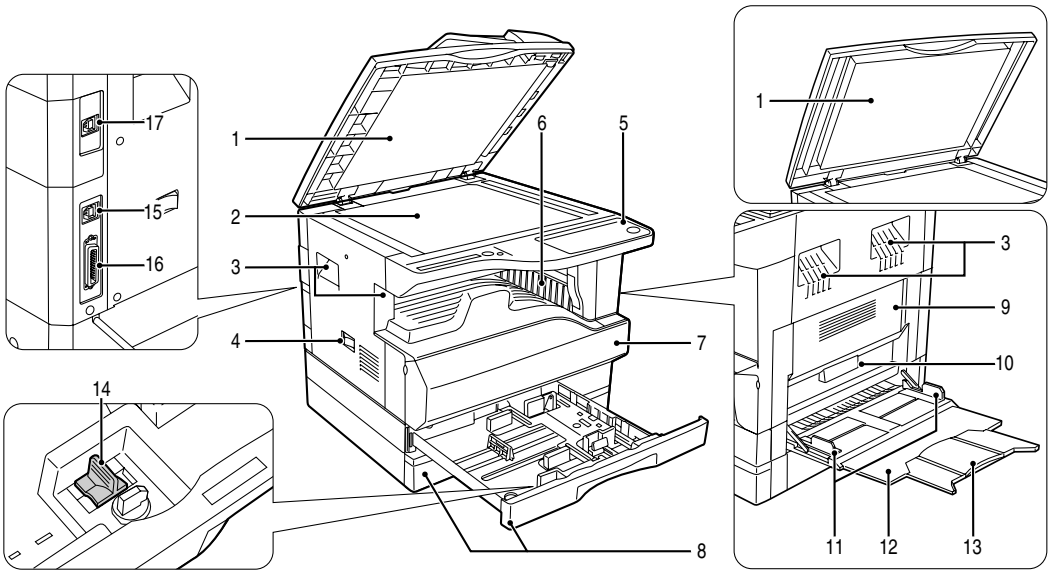
4/5 Number
Indicates the day of the month of packing.

6 Alphabet
Indicates the production factory. "A" for Nara Plant, “C“ for SOCC



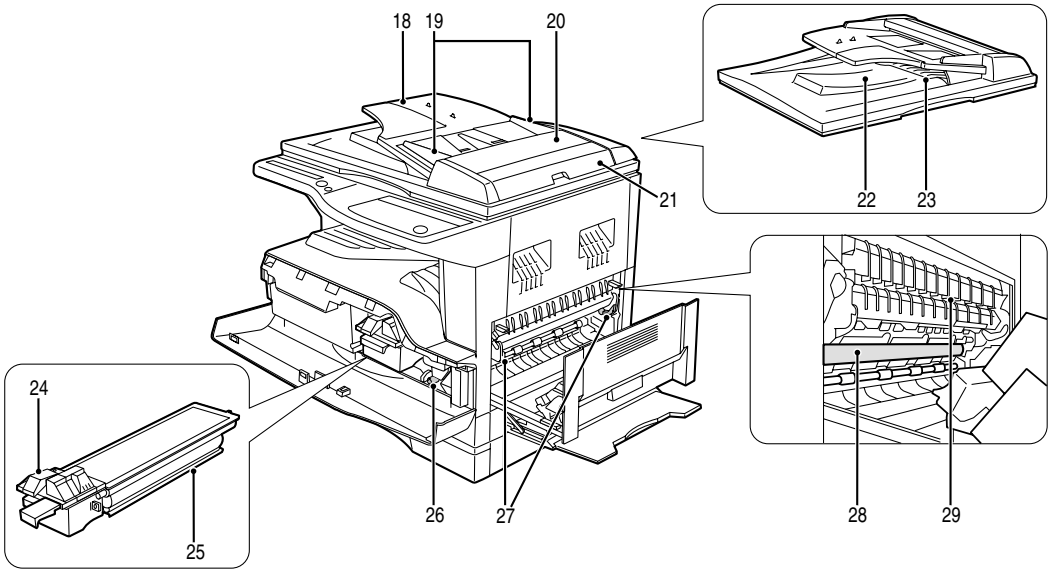
[4] EXTERNAL VIEWS AND INTERNAL STRUCTURES

1. Appearance



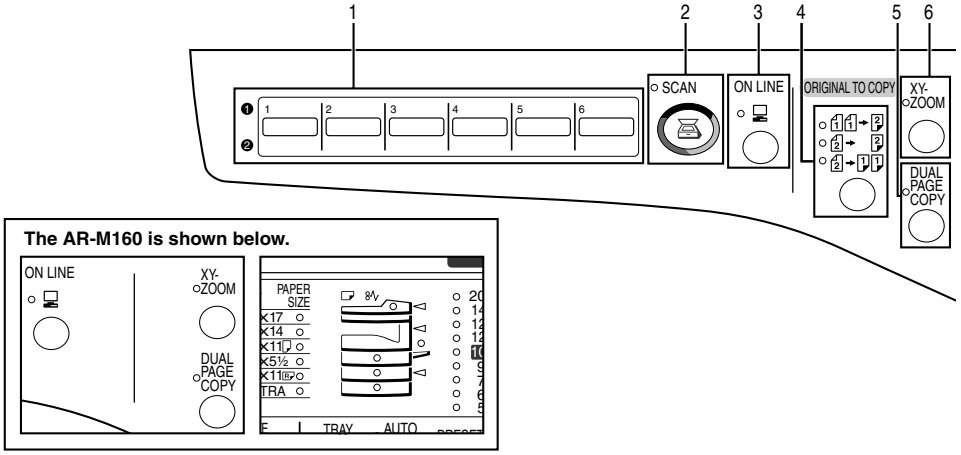
1	Document feeder cover (when the SPF/RSPF is installed) /document cover (when the document cover is installed)	2	Document glass	3	Handles
4	Power switch	5	Operation panel	6	Paper output tray
7	Front cover	8	Paper trays	9	Side cover
10	Side cover handle	11	Bypass tray guides	12	Bypass tray
13	Bypass tray extension	14	Charger cleaner	15	USB 1.1 port
16	Parallel port	17	USB 2.0 port (when the dual function board is installed)		

2. Internal

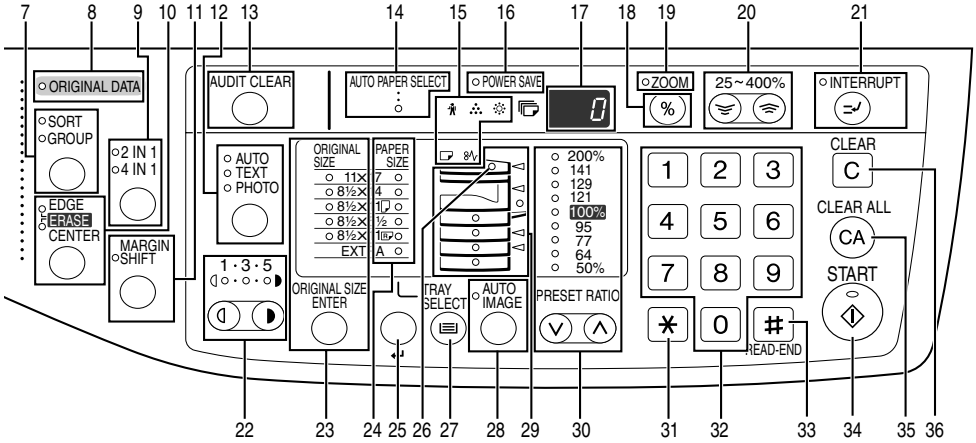


18	Document feeder tray (when the SPF/RSPF is installed)	19	Original guides (when the SPF/RSPF is installed)	20	Feeding roller cover (when the SPF/RSPF is installed)
21	Right side cover (when the SPF/RSPF is installed)	22	Exit area (when the SPF/RSPF is installed)	23	Reversing tray (when the RSPF is installed)
24	Toner cartridge lock release lever	25	Toner cartridge	26	Roller rotating knob
27	Fusing unit release levers	28	Photoconductive drum	29	Fusing unit paper guide

3. Operation Section

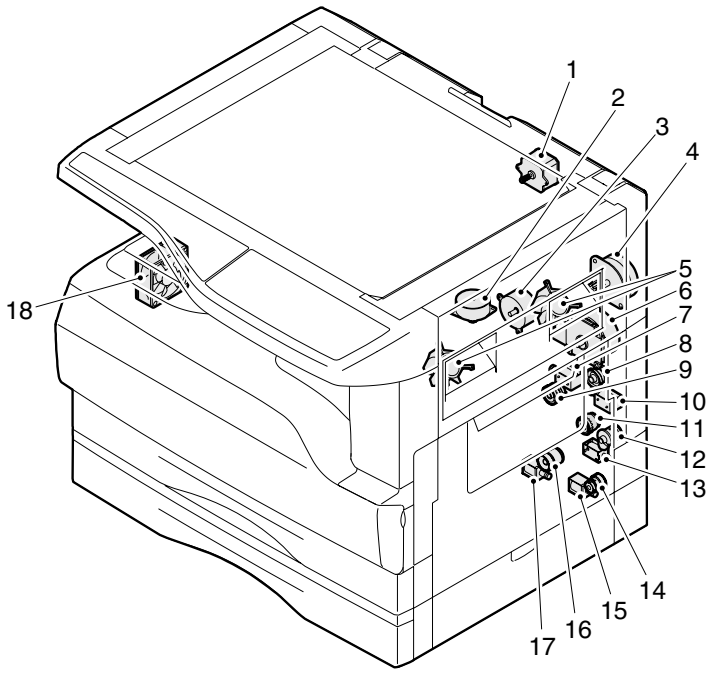


1	SCAN MENU key	2	SCAN key/indicator	3	ON LINE key/indicator
4	ORIGINAL TO COPY key/indicators (AR-M205 only)	5	DUAL PAGE COPY key/indicator	6	XY-ZOOM key/indicator



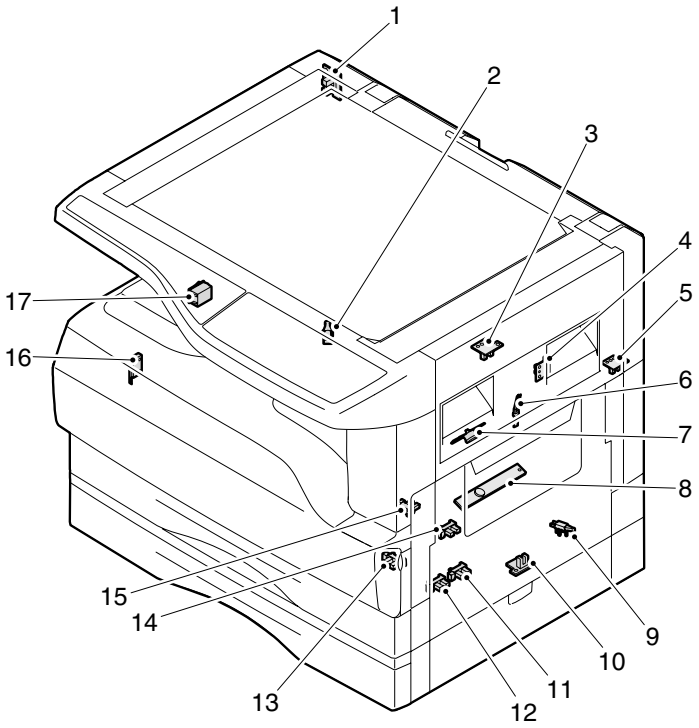
7	SORT/GROUP key/indicators (when the dual function board is installed)	8	ORIGINAL DATA indicator (when the dual function board is installed)	9	2 IN 1 / 4 IN 1 key/indicators (when the dual function board is installed)
10	ERASE key/indicators (when the dual function board is installed)	11	MARGIN SHIFT key/indicator (when the dual function board is installed)	12	AUTO/TEXT/PHOTO key / indicators
13	AUDIT CLEAR key	14	AUTO PAPER SELECT indicator	15	Alarm indicators
16	POWER SAVE indicator	17	Display	18	Copy ratio display key (%)
19	ZOOM indicator	20	Zoom keys (,)	21	INTERRUPT key () / indicator
22	Light and Dark keys (,) / indicators	23	ORIGINAL SIZE ENTER key / ORIGINAL SIZE indicators	24	PAPER SIZE indicators
25	PAPER SIZE ENTER key	26	SPR/RSPF indicator (when the SPF/RSPF is installed)	27	TRAY SELECT key ()
28	AUTO IMAGE key/indicator	29	Paper feed location/misfeed location indicators	30	PRESET RATIO selector keys (,) / indicators
31	[*] key	32	Numeric keys	33	READ-END key (#)
34	START key () /indicators	35	CLEAR ALL key (CA)	36	CLEAR key (C)

4. Motor, solenoid, clutch



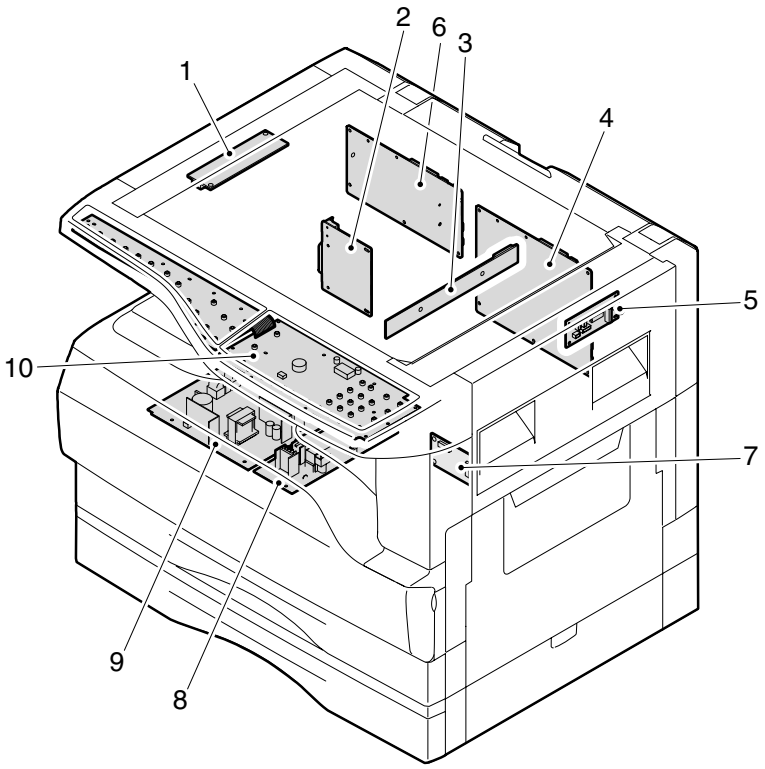
No.	Name	Code	Function operation
1	Mirror motor	MRM	Drives the optical mirror base (scanner unit).
2	Shifter motor	SHTM	Shifts the paper exit tray.
3	Toner motor	TM	Toner supply
4	Duplex motor	DPX	Switchback operation and paper exit motor in duplex.
5	Cooling fan motor	CFM	Cools the inside of the machine.
6	Main motor	MM	Drives the machine.
7	1st tray paper feed clutch	CPFC1	Drive the pick up roller
8	PS clutch	RRC	Drives the resist roller
9	Paper feed solenoid	CPSOL1	Solenoid for paper feed from cassette
10	Resist roller solenoid	RRS	Resist roller rotation control solenoid
11	Manual paper transport clutch	MPTC	Drives the manual paper transport roller.
12	Manual paper feed clutch	MPFC	Drives the manual paper feed roller.
13	Manual paper feed solenoid	MPFS	Manual paper feed solenoid
14	2nd tray transport clutch	CPFC2	Drives the 2nd tray transport roller.
15	2nd tray transport solenoid	FSOL1	2nd tray transport solenoid
16	2nd tray paper feed clutch	CPFC1	Drives the 2nd tray paper feed roller.
17	2nd tray paper feed solenoid	PSOL2	2nd tray transport solenoid
18	Exhaust fan motor	VFM	Cools the inside of the machine.

5. Sensor, switch



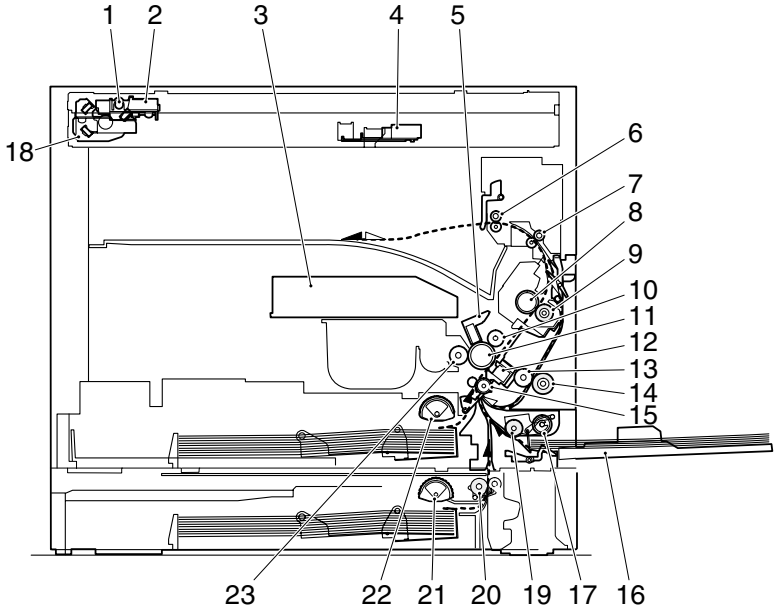
No.	Name	Code	Function operation
1	Mirror home position sensor	MHPS	Detects the mirror (scanner unit) home position.
2	Side door switch	DSWR	Side door open detection
3	Paper exit sensor (paper exit side)	POD1	Detects paper exit.
4	Shifter home position sensor	SFTHP	Shifter home position detection
5	Paper exit sensor (DUP side)	PDPX	Paper transport detection
6	Thermistor	RTH	Fusing section temperature detection
7	Thermostat		Fusing section abnormally high temperature detection
8	Toner density sensor	TCS	Toner quantity detection
9	2nd tray detection switch		2nd tray detection
10	Manual sensor	MPED	Manual transport detection
11	2nd tray door open/close sensor	DRS2	2nd tray door open/close detection
12	2nd tray door paper pass sensor	PPD2	2nd tray paper entry detection
13	2nd tray paper empty sensor	CSS2	2nd tray paper empty detection
14	Paper in sensor	PIN	Paper transport detection
15	Cassette empty		Tray paper entry detection
16	Front cover SW		Front cover open detection
17	Power switch	MAIN SW	Turns ON/OFF the main power source.

6. PWB unit



No.	Name	Function operation
1	Copy lamp Inverter PWB	Copy lamp control
2	I / F PWB	USB1.1, IEEE1284 I/F
3	CCD sensor PWB	Image scanning
4	Main control PWB	Main control PWB
5	Tray PWB	Shifter motor control
6	IMC2 PWB	Electronic sort, USB2.0 << Option:AR-EB7>>
7	2nd cassette PWB	2nd cassette control
8	High voltage PWB	High voltage control
9	Power PWB	AC power input/DC power control
10	Operation main PWB	Operation panel input/Display, operation panel section control

7. Cross sectional view



No.	Name	Function/Operation
1	Copy lamp	Image radiation lamp
2	Copy lamp unit	Operates in synchronization with No. 2/3 mirror unit to radiate documents sequentially.
3	LSU unit	Converts image signals into laser beams to write on the drum.
4	Lens unit	Reads images with the lens and the CCD.
5	MC holder unit	Supplies negative charges evenly on the drum.
6	Paper exit roller	Used to discharge paper.
7	Transport roller	Used to transport paper.
8	Upper heat roller	Fuses toner on paper (with the teflon roller).
9	Lower heat roller	Fuses toner on paper (with the silicon rubber roller).
10	Waste toner transport roller	Transports waste toner to the waste toner box.
11	Drum unit	Forms images.
12	Transfer charger unit	Transfer images (on the drum) onto paper.
13	DUP follower roller	
14	Duplex transport roller	Transports paper for duplex .
15	Resist roller	Takes synchronization between the paper lead edge and the image lead edge.
16	Manual paper feed tray	Manual paper feed tray
17	Manual paper pick up roller	Picks up paper in manual paper feed.
18	No. 2/3 mirror unit	Reflects the images from the copy lamp unit to the lens unit.
19	Manual transport roller	Transports paper from the manual paper feed port.
20	2nd tray paper transport roller	Transports paper from the 2nd tray.
21	2nd tray paper pick up roller (semi-circular roller)	Picks up paper from the 2nd tray.
22	1st tray paper feed roller (semi-circular roller)	Picks up paper from the 1st tray.
23	MG roller	Puts toner on the OPC drum.

[5]UNPACKING AND INSTALLATION

1.Installing conditions

A.Copier installation

Do not install your copier in areas that are:
•damp, humid, or very dusty
•exposed to direct sunlight
•poorly ventilated
•subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.
•Be sure to allow the required space around the machine for servicing and proper ventilation.

B.Power source

•Use an exclusive-use power outlet. If the power plug of this machine is inserted into a power outlet commonly used with other illumination units, flickers of the lamp may be result. Use a power outlet which is not used commonly with any illumination units.
•Avoid complex wiring.

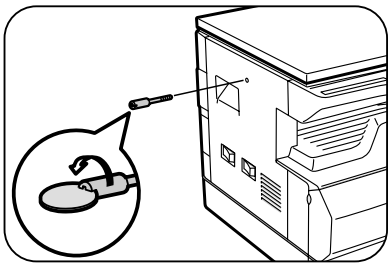
C.Grounding wire connection.

•To avoid danger, be sure to connect a grounding wire. If no grounding wire is connected and a leakage occurs, a fire or an electric shock may be result.

2.Removal of protective material and fixing screw

1) Remove all tapes and protective material.
•Remove all tapes, then open the document cover and remove the protective material of sheet shape

2) Remove the fixing screw.
•Use a coin to remove the fixing screw.
•The fixing screw is required when transporting the machine. Keep it in the tray. (Refer to the later description.)

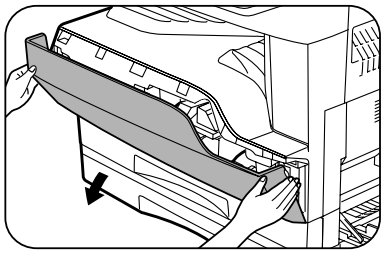


3.Installing procedure

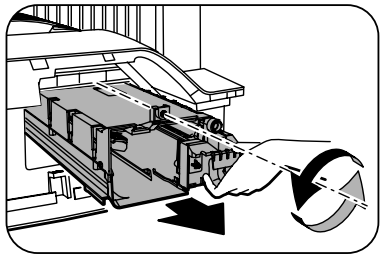
A.Developer cartridge installation

1) Open the manual tray, and open the side cover.

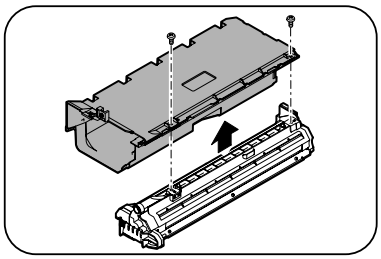
2) Open the front cover.
•Hold the both sides and pull down to open.



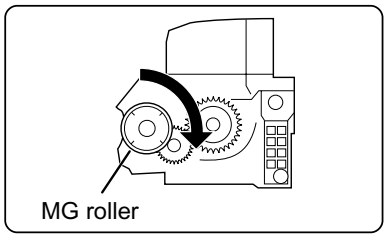
3) Loosen the screw and remove the developer cartridge.



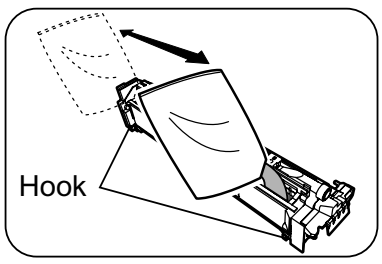
4) Remove the developer tank from the developer cartridge.



5) Supply developer into the developer tank while rotating the MG roller in the arrow direction.



* Shake the developer bag enough before opening it.



Note: Check that the DV seal is free from developing agent. If developing agent is attached to the DV seal, clean it carefully.
Check to insure that the hook is engaged in two positions.

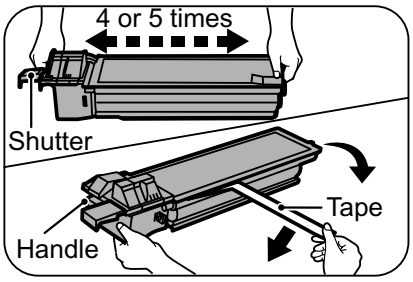
6) Attach the developer tank to the developer cartridge.
* After supplying developer into the developer cartridge, do not tilt or shake the developer cartridge.
7) Attach the developer cartridge to the copier, and fix it with the screw.

B.Toner cartridge installation

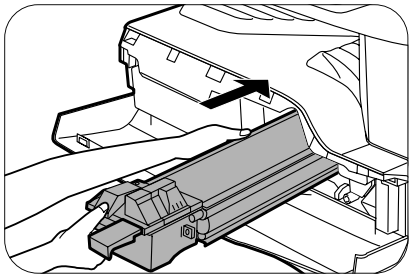
1) Shake the toner cartridge several times horizontally, and remove the tape.

* Do not hold the shutter lever when shaking.

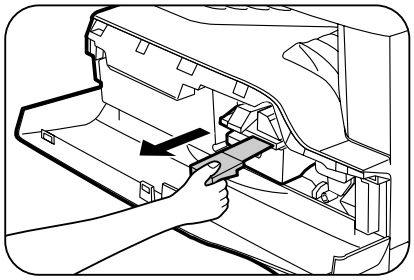
* After removing the tape, do not tilt or shake the toner cartridge.



2) Attach the toner cartridge to the copier.



3) Pull the shutter lever.

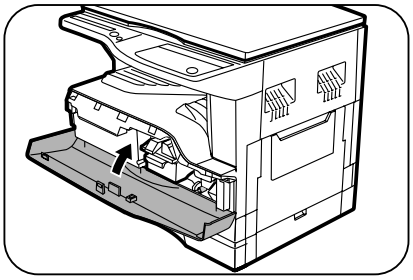


Close the front cover A, then close the side cover B.

•When closing the front cover, gently press the both sides.

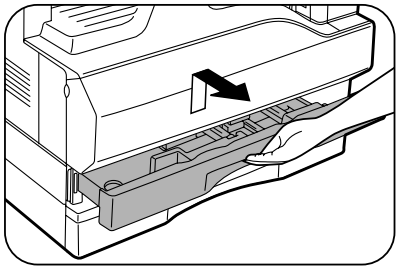
•When closing the side cover, hold the knob.

•When closing the covers, be sure to close the front cover first, then close the side cover. If closed in a wrong sequence, the covers may be broken.

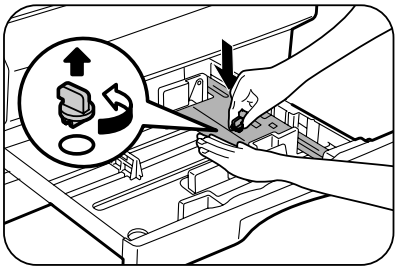


4.Removal and storage of fixing screw

1) Lift the knob and gently pull out the tray.



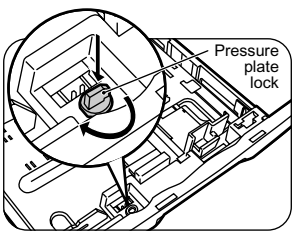
2) Hold the paper pressure plate and turn the fixing screw in the arrow direction.

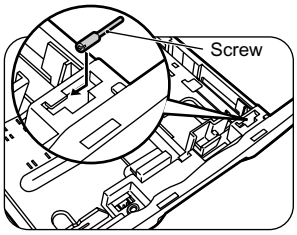


3) Store the fixing pin and the fixing screw in the tray.

•Store the fixing screw which was removed in the above procedure 2 and the fixing screw which was removed in procedure 2 of 2.

•Removal of protective material and fixing screw in the storage place in the tray.



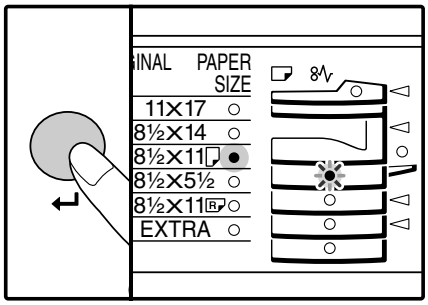


5. Changing the copy paper size in the tray

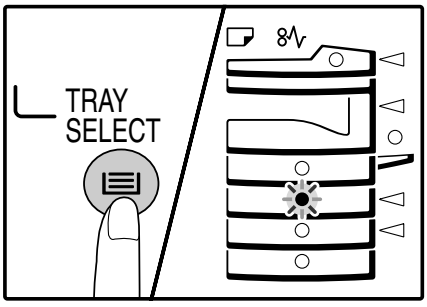
Note

- The paper size setting cannot be changed when the machine has stopped temporarily due to running out of paper or a misfeed, or during interrupt copying.
- During printing (even in copy mode), the paper size setting cannot be changed.
- 5-1/2" x 8-1/2" size paper can only be selected in upper paper tray.
- Do not load paper that is a different size than the paper size setting. Copying will not be possible.

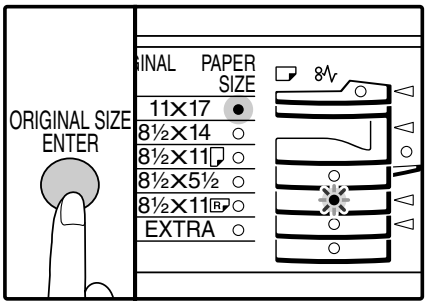
1) Hold down the [PAPER SIZE ENTER] key for more than 5 seconds to set the selected paper size.
   The currently selected paper feed location indicator will blink and the corresponding paper size (which is currently set) indicator will light steadily.
   All other indicators will go out.



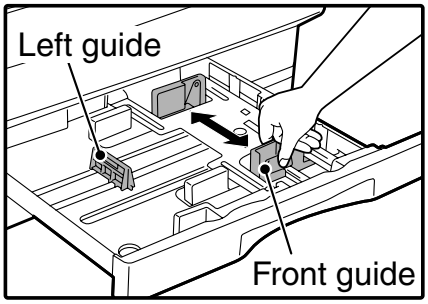
2) Use the [TRAY SELECT] key to select the paper tray for which you wish to change the paper size setting.
   Each time the [TRAY SELECT] key is pressed, a paper tray will be indicated with a blinking paper feed location indicator.



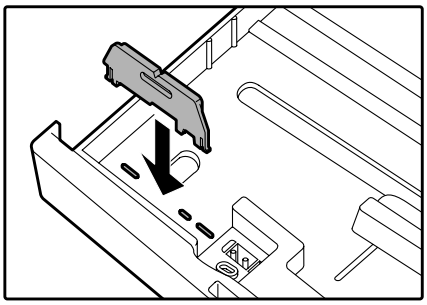
3) Use the [ORIGINAL SIZE ENTER] key to select the paper size.
   The indicator of the selected paper size lights up.



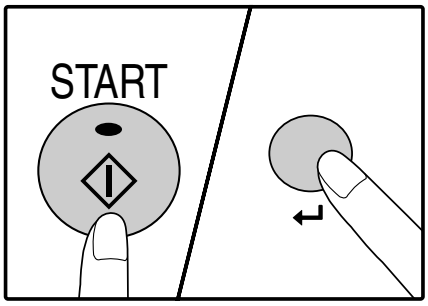
4) Squeeze the lock lever of the front guide and slide the front guide to match the width of the paper, and move the left guide to the appropriate slot as marked on the tray.



- The front guide is a slide-type guide. Grasp the locking knob on the guide and slide the guide to the indicator line of the paper to be loaded.
- The left guide is an insert-type guide. Remove it and then insert it at the indicator line of the paper to be loaded.
- When using 11" x 17" sized paper store the left guide in the slot at the left front of the paper tray.



6) Press the [START] key and then the [PAPER SIZE ENTER] key.
   To change the paper size setting of another tray, repeat steps 2 to 3 after pressing the [START] key.



Note

Affix the paper size label for the paper size selected in step 3 to the label position on the right end of the tray.

[6]ADJUSTMENTS

1.Adjustment item list

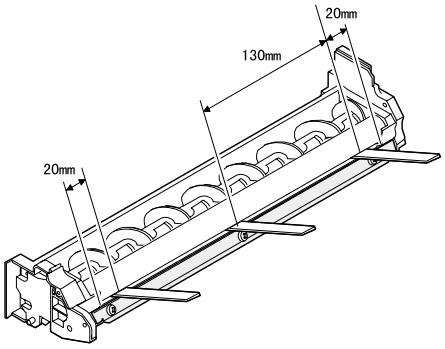
Section		Adjustment item		Adjustment procedure/SIM No.
A	Process section	(1)	Developing doctor gap adjustment	Developing doctor gap adjustment
		(2)	MG roller main pole position adjustment	MG roller main pole position adjustment
		(3)	Developing bias voltage check	
		(4)	Main charger voltage check	
B	Mechanism section	(1)	Image position adjustment	SIM-50
		(2)	Main scanning direction (FR direction) distortion balance adjustment	No. 2/3 mirror base unit installing position adjustment
				Copy lamp unit installing position adjustment
		(3)	Main scanning direction (FR direction) distortion adjustment	Rail height adjustment
		(4)	Sub scanning direction (scanning direction) distortion adjustment	Winding pulley position adjustment
		(5)	Main scanning direction (FR direction) magnification ratio adjustment	SIM 48-1
		(6)	Sub scanning direction (scanning direction) magnification ratio adjustment	OC mode in copying (SIM 48-1)
				SPF mode in copying (SIM 48-5)
		(7)	Off center adjustment	OC mode (SIM 50-12)
				SPF mode (SIM 50-12)
		(8)	SPF white correction pixel position adjustment (required in an SPF model when replacing the lens unit)	SIM63-7
C	Image density adjustment	(1)	Copy mode	SIM 46-1

2.Copier adjustment

A.Process section

(1) Developing doctor gap adjustment

1) Loosen the developing doctor fixing screw A.
2) Insert a thickness gauge of 1.5mm to the three positions at 20mm and 130mm from the both ends of the developing doctor as shown.



3) Push the developing doctor in the arrow direction, and tighten the developing doctor fixing screw. (Perform the same procedure for the front and the rear frames.)
4) Check the clearance of the developing doctor. If it is within the specified range, then fix the doctor fixing screw with screw lock.

* When inserting a thickness gauge, be careful not to scratch the developing doctor and the MG roller.

<Adjustment specification>

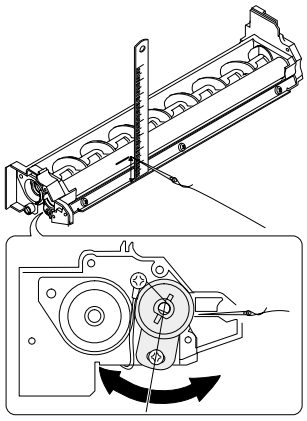
Developing doctor gap

Both ends (20mm from the both ends) : $1.5\ ^{+0.1}_{-0.15}$ mm

C (Center) (150mm from the both ends) :$1.55\ ^{+0.15}_{-0.2}$ mm

(2) MG roller main pole position adjustment

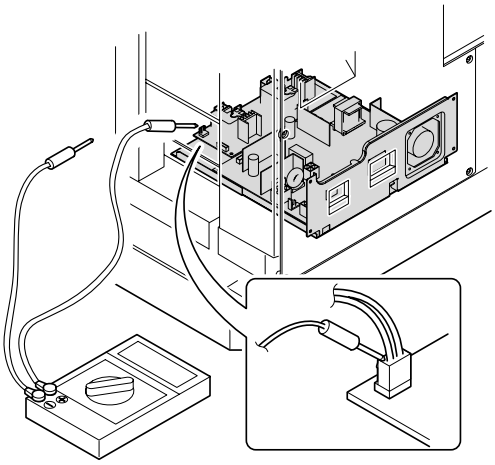
1) Remove and separate the waste toner box and put the developing unit on a flat surface.
2) Tie a string to a needle or a pin.
3) Hold the string and bring the needle close to the MG roller horizontally. (Do not use paper clip, which is too heavy to make a correct adjustment.) (Put the developing unit horizontally for this adjustment.)
4) Do not bring the needle into contact with the MG roller, but bring it to a position 2 or 3mm apart from the MG roller. Mark the point on the MG roller which is on the extension line from the needle tip.
5) Measure the distance from the marking position to the top of the doctor plate of the developing unit to insure that it is 18mm.
   If the distance is not within the specified range, loosen the fixing screw A of the main pole adjustment plate, and move the adjustment plate in the arrow direction to adjust.



(3)Developing bias voltage check

Note: Use a digital multi-meter with an internal resistance of 10MΩ or more.

1) Set the digital multi-meter range to DC700V.
2) Put the test rod of the digital multi-meter on the developing bias voltage output check pin.
3) Turn on the power, execute SIM25-1.



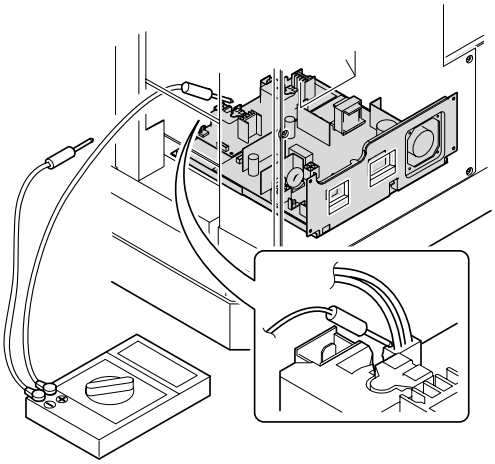
<Specification>

Mode	Specification
Developing bias voltage	DC - 400±8V

(4) Grid bias voltage check

Note: Use a digital multi-meter with an internal resistance of 10MΩ or more.

1) Set the digital multi-meter range to DC700V.
2) Put the test rod of the digital multi-meter on the grid bias voltage output check pin.
3) Turn on the power.
   (The voltage is outputted in the grid bias High output mode during warming up, and in the grid bias Low output mode when warming up is completed.)



<Specification>

Mode	Specification
Grid bias LOW	DC - 400±8V
Grid bias HIGH	DC - 525±10V

B.Mechanism section

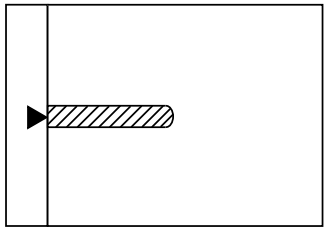
Note: If a jam error or paper empty occurs during copying in the adjustment by the simulation, the image data are not saved, and therefore recopying is required.

(1)Image position adjustment

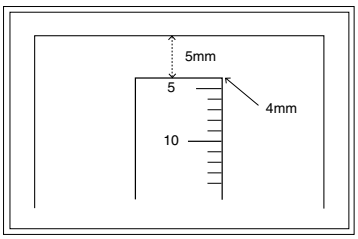
a.OC image lead edge position adjustment (SIM 50-1)

Note: In advance to this adjustment, the sub scanning magnification ratio adjustment must be performed.

1) Set a scale on the OC table as shown below.



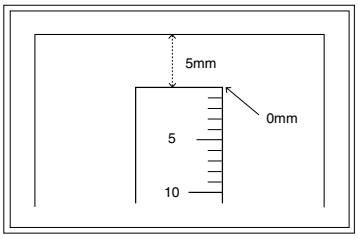
2) Make a copy.
3) Check the copy output. If necessary, perform the following adjustment procedures.
4) Execute SIM 50-1.
5) Set the OC lead edge position set value (Exposure display <<PHOTO>> ON) to [1]
   The OC image scanning start position is shifted inside the document edge.
6) Set the main cassette lead edge void adjustment value (Exposure display <<TEXT>> ON) * to [1]
   The lead edge void becomes the minimum.
7) Set the main cassette print start position value (Exposure display <<AUTO+MAIN CASSETTE LAMP>> ON) to [1] and make a copy.
   The print start position is shifted inside the document edge.



*The dimension varies depending on the model.

8) Measure the image loss R of the copied image. Enter the set value of the image scanning lead edge position (Exposure display <<PHOTO>> ON) again.

•1 step of the set value corresponds to about 0.1mm shift.
•Calculate the set value from the formula below.
R/0.1(mm) = Image loss set value
<R: Image loss measurement value (mm)>



* The scanning edge is set.
(A line may be printed by scanning the document edge.)

Example: 4/0.1 = 40 = about 40

Note: If the set value is not obtained from the above formula, perform the fine adjustment.

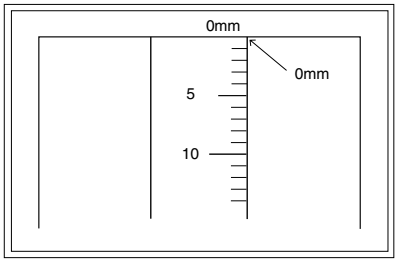
9) Measure the distance H between the paper lead edge and the image print start position. Set the image print start position set value (Exposure display <<AUTO+MAIN CASSETTE LAMP>> ON) again.

•1 step of the set value corresponds to about 0.1mm shift.

•Calculate the set value from the formula below.

H/0.1(mm) = Image print start position set value

<H: Print start position measurement value (mm)>



*Fit the print edge with the paper edge, and perform the lead edge adjustment.

Example: 5/0.1 = 50 = about 50

Note: If the set value is not obtained from the above formula, perform the fine adjustment.

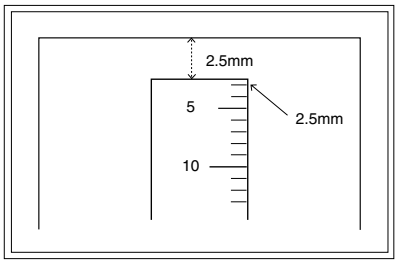
10) Set the lead edge void adjustment value (Exposure display <<TEXT>> ON)* again.

•1 step of the set value corresponds to about 0.1mm shift.

•Calculate the set value from the formula below.

B/0.05 (mm) = Lead edge void adjustment value

<B: Lead edge void (mm)>



Example: When setting the lead edge void to 2.5mm
:2.5 /0.05 = about 50

Note: If the set value is not obtained from the above formula, perform the fine adjustment.

* 2nd cassette lead edge void adjustment: Exposure display <<AUTO + TEXT + PHOTO>>
Multi bypass tray lead edge void adjustment: Exposure display <<TEXT + PHOTO>>

<Duplex mode adjustment>

OC 2nd print surface (Auto duplex) lead edge position adjustment: SIM50-19 <<PHOTO>>

* For the adjustment procedure, set to S → D mode before execution.

Note: Before performing the 2nd print surface lead edge position adjustment and the lead edge void adjustment, be sure to perform the 1st print surface lead edge position adjustment in advance, and be sure to perform the 2nd print surface lead edge position adjustment and then the lead edge void adjustment in this sequence.

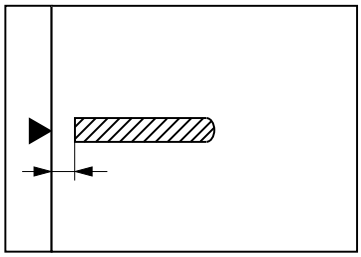
<Adjustment specification>

Adjustment mode	SIM	LED	Set value	Spec value	Set range
OC image lead edge position	SIM 50-1	PHOTO	R/0.1	Lead edge void: 1 - 4mm Image loss: 3mm or less	1 ~ 99
Main cassette print start position		AUTO + MAIN	B/0.1		
2nd cassette print start position		AUTO + 2nd CASSETTE			
Multi bypass tray print start position		AUTO + MULTI			
Lead edge void		TEXT	B/0.05		
OC 2nd print surface lead edge position adjustment	SIM 50-19*	PHOTO	1 step: 0.1mm shift		

* (Set to S → D mode for before execution)

b.SPF image lead edge position adjustment (SIM50-6)

1) Set a scale on the OC table as shown below.



Note: Since the printed copy is used as a test chart, put the scale in paralled with the edge lines.

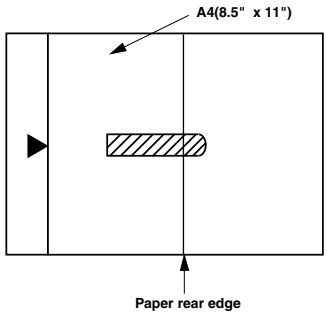
2) Make a copy, Then use the copy output as an original to make an SPF copy again.
3) Check the copy output. If necessary, perform the following adjustment procedures.
4) Execute SIM 50-6.
5) Set the SPF lead edge position set value (Exposure display <<AUTO>> ON) so that the same image is obtained as that obtained in the previous OC image lead edge position adjustment.

<Adjustment specification>

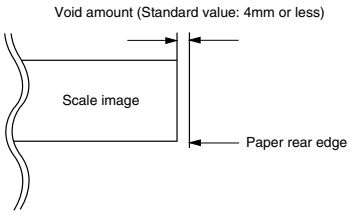
Adjustment mode	SIM	LED	Set value	Spec value	Set range
SPF image lead edge position (1st print surface)	SIM 50-6	AUTO	1 step: 0.1mm shift	Lead edge void: 1 - 4mm Image loss: 3mm or less	1 ~ 99
(2nd print surface)		TEXT			

c.Rear edge void adjustment (SIM50-1, SIM50-19)

1) Set a scale as shown in the figure below.



2) Set the document size to A4 (8.5" x 11"), and make a copy at 100%.
3) If necessary, perform the following adjustment procedure.



4) Execute SIM 50-1 and set the density mode to AUTO + TEXT + PHOTO (Rear edge void).The currently set adjustment value is displayed.
5) Enter the set value and press the start key. The correction value is stored and a copy is made.

<Duplex mode adjustment>

* 1st print surface (auto duplex) rear edge void adjustment: SIM50-19 <<AUTO>>
* 2nd print surface (auto duplex) rear edge void adjustment: SIM50-19<<TEXT>>
* Set to S → D mode before execution.

Note: Before performing the 2nd print surface rear edge void adjustment, be sure to perform the 2nd print surface lead edge position adjustment. Never reverse the sequence.

<Adjustment specification>

Mode	SIM	LED	Set value	Specifi-cation	Set range
Rear edge void	SIM 50-1	AUTO + TEXT + PHOTO	1 step: 0.1mm shift	4mm or less	1 ~ 99
1st print surface rear edge void	SIM 50-19*	AUTO			
2nd print surface rear edge void	SIM 50-19*	TEXT			

* Set to S → D mode before execution

d. Paper off center adjustment (SIM50-10)

1) Set a test chart (UKOG-0089CSZZ) on the document table.
2) Select a paper feed port and make a copy. Compare the copy and the test chart. If necessary, perform the following adjustment procedure.
3) Execute SIM 50-10. After completion of warm-up, shading is performed and the currently set off center adjustment value of each paper feed port is displayed.
4) Enter the set value and press the start key. The correction value is stored and a copy is made.

<Duplex mode adjustment>

* 2nd print surface (auto duplex) off-center adjustment: SIM50-10<<TEXT+MAIN CASSETTE>>

<Adjustment specification>

Mode	SIM	LED	Set value	Specifi-cation	Set range
Paper off center	SIM 50-10	AUTO + Selected tray ON	Add 1: 0.1mm shift to R side.	Single: Center ±2.0mm	1 ~ 99
2nd print surface off-center	SIM 50-10	TEXT + MAIN CASSETTE	Reduce 1: 0.1mm shift to L side.	Duplex: Center ±2.5mm	

e.Side edge void area adjustment (SIM26-43)

Note: Before performing this adjustment, be sure to check that the paper off center adjustment (SIM 50-10) is completed.

1) Set a test chart (UKOG-0089CSZZ) on the document table.
2) Select a paper feed port and make two copies. Compare the 2nd copy and the test chart. If necessary, perform the following adjustment procedure.
* The 1st copy does not show the void. Be sure to check the 2nd copy.
3) Execute SIM 26-43 and set the density mode to AUTO(right edge void) + TEXT (Left edge void).
The currently set adjustment value is displayed.
4) Enter the set value and press the start key. The correction value is stored.

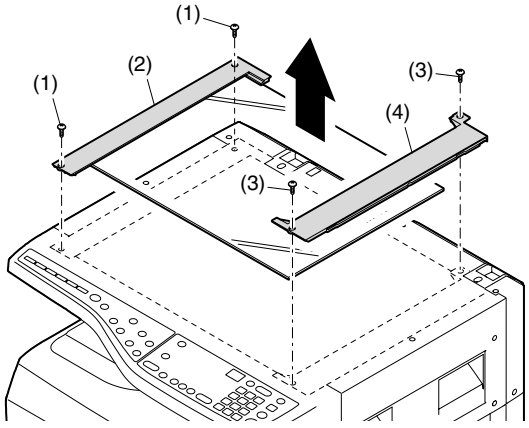
<Adjustment specification>

ode	SIM	LED	Set value	Specifi-cation	Set range
Left edge void	SIM 26-43	AUTO (right edge) + TEXT (left edge)	1 step: 0.5mm shift	0.5 ~ 4mm	1 ~ 99

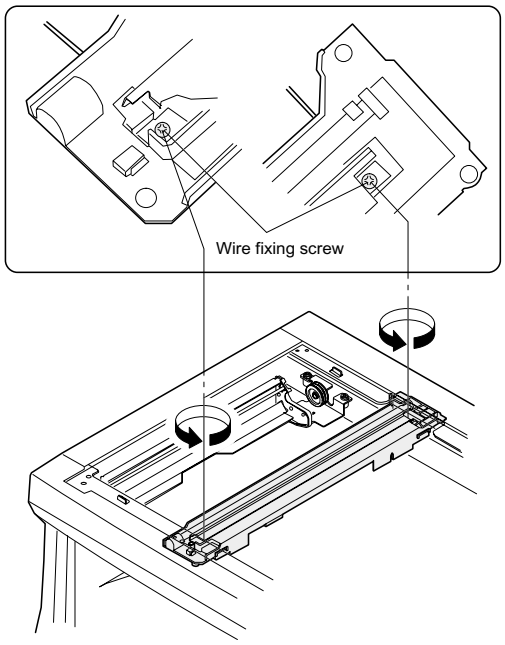
* The void adjustment values on the right and the left must be the same.

(2) Main scanning direction(FR direction) distortion balance adjustment

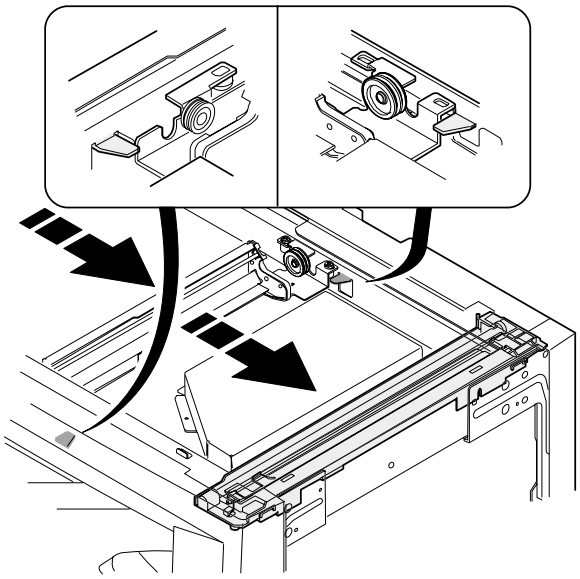
1) Remove the OC glass and the right cabinet.



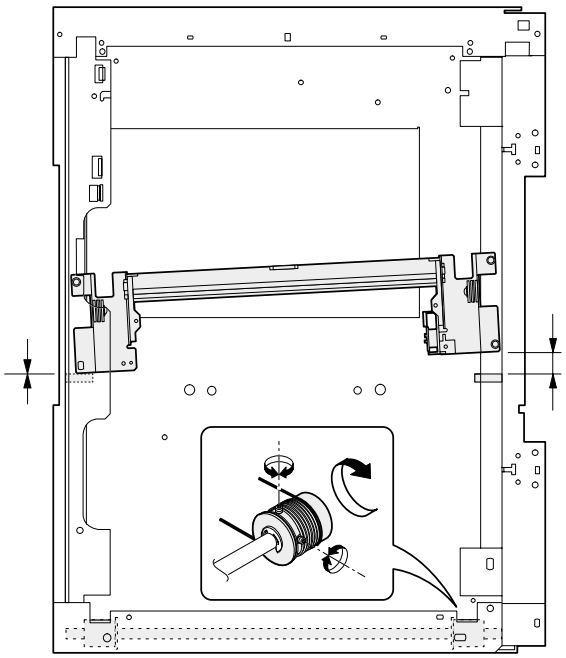
2) Loosen the copy lamp unit wire fixing screw.



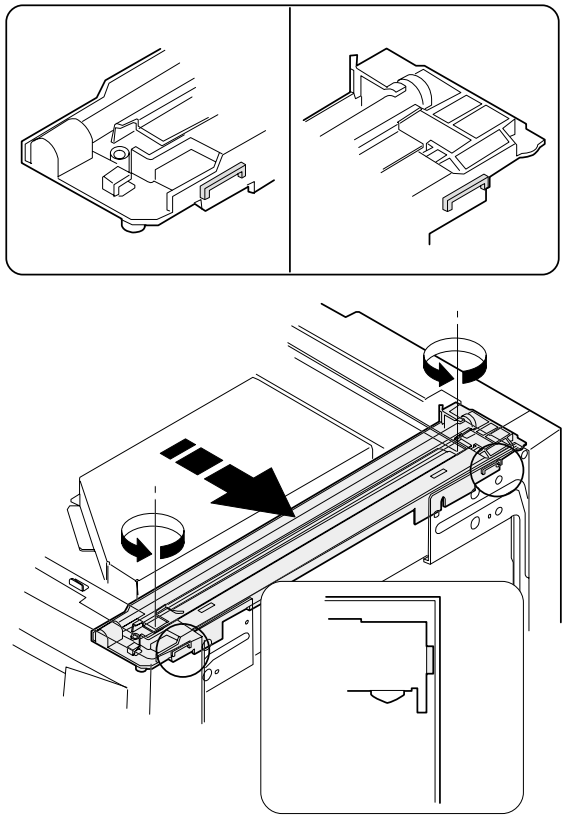
3) Manually turn the mirror base drive pulley and bring No. 2/3 mirror base unit into contact with the positioning plate. At that time, if the front frame side and the rear frame side of No. 2/3 mirror base unit are brought into contact with the positioning plate at the same time, the mirror base unit parallelism is proper. If one of them is in contact with the positioning plate, perform the adjustment of 4).



4) Loosen the set screw of the scanner drive pulley which is not in contact with No. 2/3 mirror base unit positioning plate.
5) Without moving the scanner drive pulley shaft, manually turn the scanner drive pulley until the positioning plate is brought into contact with No. 2/3 mirror base unit, then fix the scanner drive pulley.

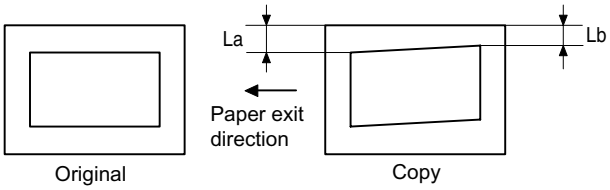


6) Put No. 2/3 mirror base unit on the positioning plate again, push the projections on the front frame side and the rear frame side of the copy lamp unit to the corner frame, and tighten the wire fixing screw.

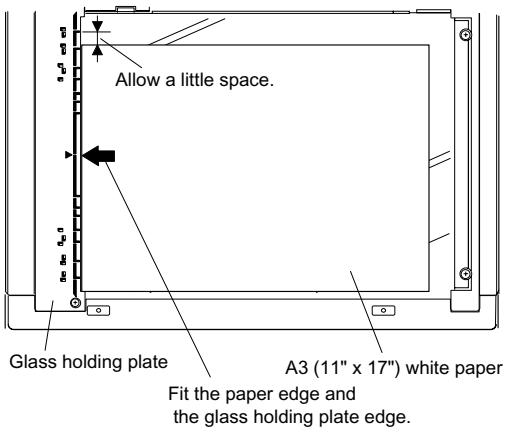


(3)Main scanning direction (FR direction) distortion adjustment

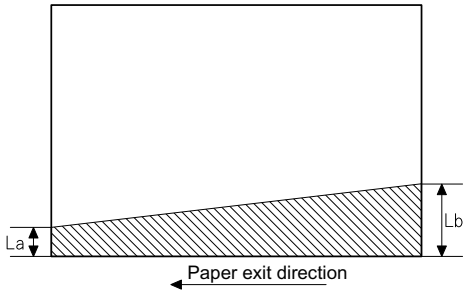
This adjustment must be performed in the following cases:
•When the mirror base drive wire is replaced.
•When the lamp unit, or No. 2/3 mirror holder is replaced.
•When a copy as shown is made.



1) Set A3 (11" x 17") white paper on the original table as shown below.



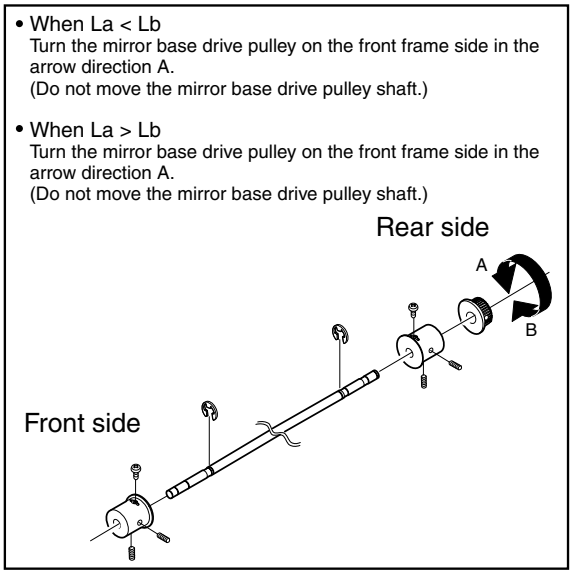
2) Open the original cover and make a normal (100%) copy.
3) Measure the width of the black background at the lead edge and at the rear edge.



La: Lead edge black background width
Lb: Rear edge black background width

If the width (La) of the black background at the lead edge is equal that (Lb) at the rear edge, there is no need to execute the following procedures of 4) ~ 7).

4) Loosen the mirror base drive pulley fixing screw on the front frame side or on the rear frame side.



5)Tighten the mirror base drive pulley fixing screw.

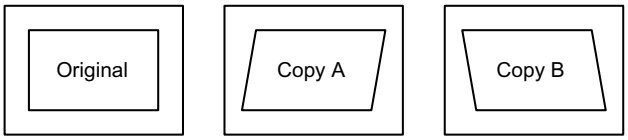
<Adjustment specification>

La = Lb

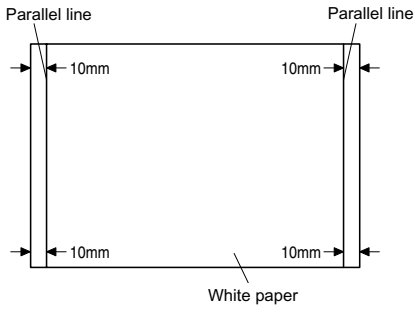
6) Execute the main scanning direction (FR) distartion balance adjustment previously described in 2) again.

(4) Sub scanning direction (scanning direction) distortion adjustment

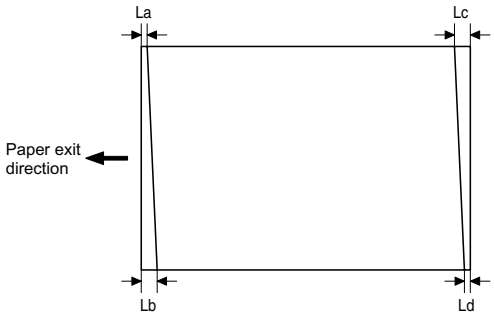
When there is no skew copy in the mirror base scanning direction and there is no horizontal error (right angle to the scanning direction), the adjustment can be made by adjusting the No. 2/3 mirror base unit rail height.
Before performing this adjustment, be sure to perform the horizontal image distortion adjustment in the laser scanner section.
This adjustment must be performed in the following cases:
•When the mirror base wire is replaced.
•When the copy lamp unit or No. 2/3 mirror unit is replaced.
•When the mirror unit rail is replaced or moved.
•When a following copy is made.



1) Making of a test sheet
Make test sheet by drawing parallel lines at 10mm from the both ends of A3 (11" x 17") white paper as shown below. (These lines must be correctly parallel to each other.)

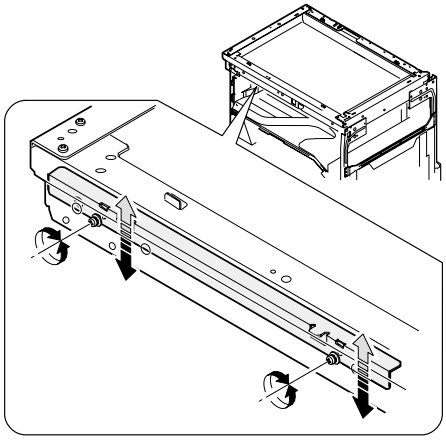


2) Make a normal (100%) copy of the test sheet on A3 (11" x 17") paper. (Fit the paper edge with the glass holding plate edge.)
3) Measure the distances (La, Lb, Lc, Ld) at the four corners as shown below.



When La = Lb and Lc = Ld, no need to perform the procedures 4) and 5).

4) Move the mirror base F rail position up and down (in the arrow direction) to adjust.



Note: If the rear side rail is used for the adjustment, the scanning position of the white balance sheet is shifted and "E7-04" may occur only when scanning with the SPF. Therefore it is advisable to use the front side rail for the adjustment.

- When La > Lb
  Shift the mirror base B rail upward by the half of the difference of La - Lb.
- When La < Lb
  Shift the mirror base B rail downward by the half of the difference of Lb - La.
  Example: When La = 12mm and Lb = 9mm, shift the mirror base B rail upward by 1.5mm.
- When Lc > Ld
  Shift the mirror base B rail downward by the half of the difference of Lc - Ld.
- When Lc < Ld
  Shift the mirror base B rail downward by the half of the difference of Ld - Lc.

* When moving the mirror base rail, hold the mirror base rail with your hand.

<Adjustment specification>

La = Lb, Lc = Ld

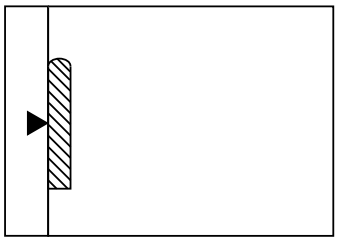
5) After completion of adjustment, manually turn the mirror base drive pulley, scan the mirror base A and mirror base B fully, and check that the mirror bases are not in contact with each other.

* If the mirror base rail is moved extremely, the mirror base may be in contact with the frame or the original glass. Be careful to avoid this.

(5) Main scanning direction (FR direction) magnification ratio adjustment (SIM 48-1)

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below.



2) Execute SIM 48-1.
3) After warm-up, shading is performed and the current set value of the main scanning direction magnification ratio is displayed on the display section in 2 digits.
4) Select the mode and press the start key again.
5) Manual correction mode (TEXT lamp ON)
Enter the set value and press the start key.
The set value is stored and a copy is made.

<Adjustment specification>

Note: A judgment must be made with 200mm width, and must not be made with 100mm width.

Mode	Specification	SIM	Set value	Set range
Main scanning direction magnification ratio	At normal: ±1.0%	SIM 48-1	Add 1:0.1% increase Reduce 1: 0.1% decrease	1 ~ 99

(6) Sub scanning direction (scanning direction) magnification ratio adjustment (SIM 48-1, SIM 48-5)

a. OC mode in copying (SIM48-1)

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below, and make a normal (100%) copy.
2) Compare the scale image and the actual image. If necessary, perform the following adjustment procedures.
3) Execute SIM 48-1.<<PHOTO>>
4) After warm-up, shading is performed and the current set value of the main scanning direction magnification ratio is displayed on the display section in 2 digits.
5) When the photo lamp is lighted by pressing the density selection key, the current magnification ratio correction value in the sub scanning direction is displayed in lower 2 digits of the display section.
6) Enter the set value and press the start key.
   The set value is stored and a copy is made.

<Adjustment specification>

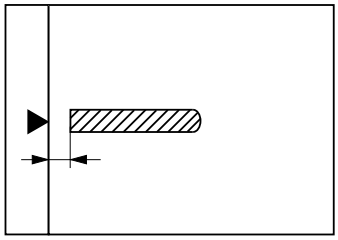
Mode	Specification	SIM	Set value	Set range
Sub scanning direction magnification ratio (OC mode)	Normal ±1.0%	SIM 48-1 (PHOTO)	Add 1:0.1% increase Reduce 1: 0.1% decrease	1 ~ 99

b. RSPF sub scanning direction magnification ratio (SIM48-5)

Note:

- Before performing this adjustment, be sure to check that the CCD unit is properly installed.
- Before performing this adjustment, the OC mode adjustment in copying must be completed.

1) Put a scale on the original table as shown below, and make a normal (100%) copy to make a test chart.



Note: Since the printed copy is used as a test chart, put the scale in parallel with the edge lines.

2) Set the test chart on the SPF and make a normal (100%) copy.
3) Compare the scale image and the actual image. If necessary, perform the following adjustment procedures.
4) Execute SIM 48-5.
5) After warm-up, shading is performed.
   The auto density lamp lights up and the current front surface sub scanning direction magnification ratio correction value is displayed in two digits on the display section.
6) Enter the set value and press the start key.
   The set value is stored and a copy is made.
7) Change the mode from the duplex original mode to the simplex original mode.
   "MANUAL" lamp lights up and the current back surface sub scanning direction magnification ratio is displayed in two digits on the display section.
8) Enter the set value and press the start key.
   The set value is stored and a copy is made.

<Adjustment specification>

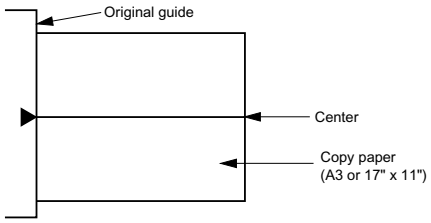
Mode	Specification	SIM	Set value	Set range
Sub scanning direction magnification ratio (SPF mode)	Normal ±1.0%	SIM 48-5	Add 1:0.1% increase Reduce 1: 0.1% decrease	1 ~ 99

(7) Off center adjustment (SIM 50-12)

a. OC mode (SIM50-12)

1) Make a test chart as shown below and set it so that its center line is fit with the original guide center mark.

* To make a test chart, draw a line on A3 or 11" x 17" paper at the center in the paper transport direction.



2) Make a normal copy from the manual paper feed tray, and compare the copy and the test chart.
   If necessary, perform the following adjustment procedures.
3) Execute SIM 50-12.
4) After warm-up, shading is performed and the current set value of the off center adjustment is displayed on the display section in 2 digits.
5) Enter the set value and press the start key.
   The set value is stored and a copy is made.

<Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Original off center mode (OC mode)	Single: Center ±2.0mm	SIM 50-12 (AE lamp ON)	Add 1: 0.1mm shift to R side Reduce 1: 0.1mm shift to L side	1 ~ 99

b. SPF original off-center adjustment (SIM50-12)

Note: Before performing this adjustment, be sure to check that the paper off center is properly adjusted.

1) Make a test chart for the center position adjustment and set it on the SPF.

<Adjustment specification>

Draw a line on a paper in the scanning direction.

2) Make a normal copy from the manual paper feed tray, and compare the copy and the original test chart.
   If necessary, perform the following adjustment procedures.
3) Execute SIM 50-12.
4) After warm-up, shading is performed and the current set value of the off center adjustment at each paper feed port is displayed on the display section in 2 digits.
5) Enter the set value and press the start key.
   The set value is stored and a copy is made.

<Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Original off center mode (SPF mode)	Single: Center ±3.0mm(TEXT lamp)	SIM 50-12	Add 1: 0.1mm shift to R side Reduce 1: 0.1mm shift to L side	1 ~ 99
	Duplex: Center ±3.5mm(PHOTO lamp)			

(8) SPF white correction pixel position adjustment(SIM63-7) (required in an SPF model when replacing the lens unit)

1) Fully open the SPF.
2) Execute SIM 63-7.
3) When the operation panel displays "COMPLETE,"the adjustment is completed.
4) If the operation panel displays "ERROR,"perform the following measures.

•When the display is 0:

Check that the SPF is open.

Check that the lamp is ON.(If the lamp is OFF,check the MCU connector.)

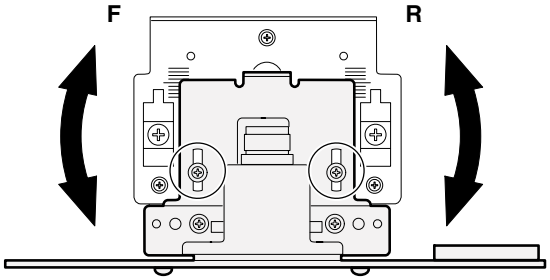
Check that the CCD harness is properly inserted into the MCU connector.

•When the display is 281 or above:

1) Remove the table glass.
2) Remove the dark box.
3) Slide the lens unit toward the front side and attach it,then execute SIM.

•When the display is 143 or below:

1) Remove the table glass.
2) Remove the dark box.
3) Slide the lens unit toward the rear side and attach it,then execute SIM.



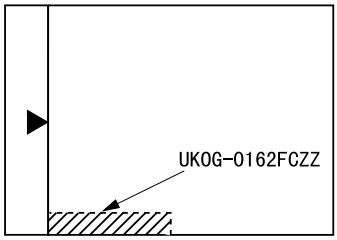
* When the lens unit is moved,execute the OC main scanning magnification ratio auto adjustment,SIM 48-1-1,IM48-3 and the PF original off-center adjustment.

* This adjustment is basically O.K.with IM 63-7.

C.Image density adjustment

(1)Copy mode (SIM 46-1)

1)Set a test chart (UKOG-0162FCZZ) on the OC table as shown below.



2) Put several sheets of A3 or 11" x 17" white paper on the test chart.
3) Execute SIM 46-1.
4) After warm-up, shading is performed and the current set value of the density level is displayed on the display section in 2 digits.
   For mode selection, use the density select key.
5) Change the set value with the 10-key to adjust the copy image density.
6) Make a copy and check that the specification below is satisfied.

<Adjustment specification>

Density mode	Display lamp	Exposure level	Sharp Gray Chart output	Set value	Set range
Auto	Auto	-	"2" is slightly copied.	The greater the set value is the greater the density is The smaller the set value is the smaller the density is.	1 ~ 99
Text	Text	3	"3" is slightly copied.		
Photo	Photo	3	"2" is slightly copied.		
Toner save	Text/ Photo	3	"3" is slightly copied		
Toner save	Auto/ Photo	-	"2" is slightly copied		

[7] SIMULATIONS

1. Entering the simulation mode

Perform the following procedure to enter the simulation mode.
"#" key → Interrupt key → "C" key → Interrupt key →
Main code → Start key → Sub code → Start key

2. Canceling the simulation mode

When the clear all key is pressed, the simulation mode is cancelled.
When the interruption key is pressed, the process is interrupted and the screen returns to the sub code entering display.

* After canceling the simulation mode, be sure to turn OFF/ON the power and check the operation.

Note: If the machine is terminated by a jam error or paper empty during copying in the adjustment by the simulation, recopying is required.

3. List of simulations

Main code	Sub code	Contents
01	01	Mirror scanning operation
	02	Mirror home position sensor (MHPS) status display
	06	Mirror scanning operation aging
02	01	Single paper feeder (SPF) aging
	02	SPF sensor status display
	03	SPF motor operation check
	08	SPG paper feed solenoid operation check
	09	RSPF reverse solenoid operation check
	10	RSPF paper exit gate solenoid operation check
	11	SPF PS release solenoid operation check
03	02	Shifter sensors status display
	03	Shifter operation check
	11	Shifter home position check
05	01	Operation panel display check
	02	Fusing lamp and cooling fan operation check
	03	Copy lamp lighting check
06	01	Paper feed solenoid operation check
	02	Resist roller solenoid operation check
	10	Main cassette semicircular roller cleaning
07	01	Warm-up display and aging with jam
	06	Intermittent aging
	08	Shifting with warm-up display
08	01	Developing bias output
	02	Main charger output (Grid = HIGH)
	03	Main charger output (Grid = LOW)
	06	Transfer charger output
09	01	Duplex motor forward rotation check
	02	Duplex motor reverse rotation check
	04	Duplex motor RPM adjustment
	05	Duplex motor switchback time adjustment
10	-	Toner motor operation
14	-	Trouble cancel (except for U2)
16	-	U2 trouble cancel
20	01	Maintenance counter clear
21	01	Maintenance cycle setting
	02	Mini maintenance cycle setting
22	01	Maintenance counter display
	02	Maintenance preset display
	03	Jam memory display
	04	Jam total counter display
	05	Total counter display
	06	Developing counter display
	07	Mini maintenance preset display
	08	SPF counter display
	09	Paper feed counter display
	12	Drum counter display
	13	CRUM type display
	14	P-ROM version display
	15	Trouble memory display
	16	Duplex print counter display
	17	Copy counter display
	18	Printer counter display
	19	Scanner mode counter display
	21	Scanner counter display
	22	SPF jam counter display

Main code	Sub code	Contents
24	01	Jam total counter clear
	02	Trouble memory clear
	04	SPF counter clear
	05	Duplex print counter clear
	06	Paper feed counter clear
	07	Drum counter clear
	08	Copy counter clear
	09	Printer counter clear
	13	Scanner counter clear
	14	SPF jam total counter clear
	15	Scanner mode counter clear
25	01	Main motor operation check
	10	Polygon motor operation check
26	02	Size setting
	03	Auditor setting
	04	Copier duplex setting
	05	Count mode setting
	06	Destination setting
	07	Machine condition check (CPM)
	18	Toner save mode setting
	30	CE mark conformity control ON/OFF
	31	Auditor mode exclusive setup
	36	Cancel of stop at maintenance life over
	37	Cancel of stop at developer life over
	38	Cancel of stop at drum life over
	39	Memory capacity check
	42	Transfer ON/OFF timing control setting
	43	Side void amount setting
	51	Copy temporary stop function setting
30	01	Paper sensor status display
42	01	Developing counter clear
43	01	Fusing temperature setting
	10	Postcard paper feed cycle setting
	11	Postcard size paper fusing temperature setting
	12	Standby mode fusing fan rotation setting
	13	Fusing paper interval control allow/inhibit setting
44	34	Transfer current setting
	40	Setting of rotation time before toner supply
46	01	Copy density adjustment (300dpi)
	02	Copy density adjustment (600dpi)
	09	Copy exposure level adjustment, individual setting (Text) 300dpi
	10	Copy exposure level adjustment, individual setting (Text) 600dpi
	11	Copy exposure level adjustment, individual setting (Photo) 600dpi
	18	Image contrast adjustment (300dpi)
	19	Exposure mode setting (Gamma table setting/AE operation mode setting/ Photo image process setting)
	20	SPF exposure correction
	29	Image contrast adjustment (600dpi)
	30	AE limit setting
	31	Image sharpness adjustment
48	01	Main scanning magnification ratio adjustment
	05	SPF/RSPF mode sub scanning magnification ratio adjustment in copying
49	01	Flash ROM program writing mode

Main code	Sub code	Contents
50	01	Image lead edge adjustment
	06	Copy lead edge position adjustment (SPF/RSPF)
	10	Paper off-center adjustment
	12	Document off-center adjustment
	18	Memory reverse position adjustment in duplex copy
	19	Rear edge void adjustment in duplex copy
51	02	Resist amount adjustment
53	08	SPF scanning position automatic adjustment
61	03	HSYNC output check
63	01	Shading check
	07	SPF automatic correction
64	01	Self print

4. Contents of simulations

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>01</td><td>01</td><td>Mirror scanning operation</td><td>When the [START] key is pressed, the home position is checked in the first place, and the mirror base performs A3 full scanning once at the set magnification ratio speed. During this scanning, the set magnification ratio is displayed. The mirror home position sensor status is displayed with the photoconductor cartridge replacement lamp.
(The lamp lights up when the mirror is in the home position.)
During scanning, the copy lamp lights up.
When the [Interrupt] key is pressed, the operation is interrupted to go to the sub code input standby mode.</td></tr>
<tr><td></td><td>02</td><td>Mirror home position sensor (MHPS) status display</td><td>Used to monitor the mirror home position sensor. When the sensor is ON, the photoconductor cartridge replacement lamp is lighted. During that time, the display section displays the sub code.
When the [Interrupt] key is pressed, the machine goes to the sub code input standby mode.
(When the CA key is pressed, the simulation is terminated.)</td></tr>
<tr><td></td><td>06</td><td>Mirror scanning operation aging</td><td>When the [START] key is pressed, the mirror base performs A3 full scanning at the set magnification ratio speed. During scanning, the set magnification ratio is displayed. After 3 seconds, the mirror base performs full scanning again. During scanning, the set magnification ratio is displayed.
* When the [START] key is pressed again, the ready lamp turns and remains off.
The photoconductor cartridge replacement lamp displays the status of the mirror home position sensor. (The lamp lights up when the mirror is in the home position.)
During aging, the copy lamp lights up. When the [Interrupt] key is pressed, the operation is interrupted if operating, and the machine goes into the sub code input standby mode.</td></tr>
<tr><td>02</td><td>01</td><td>Single paper feeder (SPF) aging</td><td>When the [START] key is pressed, the set magnification ratio is acquired and document transport operation of single surface is performed in the case of SPF or document transport operation of duplex surfaces is performed in the case of RSPF. Since, however, there is no limited condition for this operation, it does not stop even at a paper jam. During operation, the LED on the display section corresponding to the selected magnification ratio lights up, and the magnification ratio is displayed on the 7-seg display. When the [Interrupt] key is pressed at that time, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.
<Conditions for executing this simulation>
Set paper on the SPF and fix it with tape. If paper is not fixed, the operations cannot be guaranteed.</td></tr>
<tr><td></td><td>02</td><td>SPF sensor status display</td><td>(In order to receive the sensor change notification, the load must be decreased.)
The sensor status (ON/OFF) in the SPF can be checked with the following lamps.
When a sensor detects paper, it turns on. The open/close detection sensor turns on when the machine is opened.
<table><tr><th>Display lamp</th><th>Sensor</th></tr><tr><td>Developing cartridge replacement lamp</td><td>SPF document set sensor</td></tr><tr><td>Copier jam lamp</td><td>SPF document transport sensor</td></tr><tr><td>Photoconductor cartridge replacement lamp</td><td>SPF unit (OC cover) open/close sensor</td></tr><tr><td>Paper empty lamp</td><td>SPF paper exit sensor</td></tr><tr><td>SPF jam lamp</td><td>SPF paper feed cover open/close sensor</td></tr><tr><td>Manual paper feed lamp</td><td>SPF paper length sensor 1</td></tr><tr><td>Tray jam lamp</td><td>SPF paper length sensor 2</td></tr><tr><td>AE lamp</td><td>SPF paper feed width sensor (small)</td></tr><tr><td>TEXT lamp</td><td>SPF paper feed width sensor (middle)</td></tr><tr><td>PHOTO lamp</td><td>SPF paper feed width sensor (large)</td></tr></table>
When the [Interrupt] key is pressed, the machine goes to the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>03</td><td>SPF motor operation check</td><td>When the [START] key is pressed, the motor rotates for 10 sec at the speed corresponding to the set magnification ratio. When the [Interrupt] key is pressed, the machine stops operation and goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>08</td><td>SPG paper feed solenoid operation check</td><td>The SPF paper feed solenoid (PSOL) is turned ON for 500msec and OFF for 500msec.
This operation is repeated 20 times.
After completion of the process, the machine goes to the sub code input standby mode.
When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>09</td><td>RSPF reverse solenoid operation check</td><td>The RSPF reverse solenoid (PSOL) is turned ON for 500msec and OFF for 500msec.
This operation is repeated 20 times.
After completion of the process, the machine goes to the sub code input standby mode.
When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>10</td><td>RSPF paper exit gate solenoid operation check</td><td>The RSPF paper exit gate solenoid (GSOL) is turned ON for 500msec and OFF for 500msec.
This operation is repeated 20 times.
After completion of the process, the machine goes to the sub code input standby mode.
When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
</table>

Main code	Sub code	Contents	Details of operation
02	11	SPF PS release solenoid operation check	The SPF PS release solenoid (CLH) is turned ON for 500msec and OFF for 500msec. This operation is repeated 20 times. After completion of the process, the machine goes to the sub code input standby mode. When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.
03	02	Shifter sensors status display	The shifter HP sensor is monitored. When the sensor is ON, the [Copier position jam lamp] is lighted. During this operation, the display section displays the sub code. When the [Interrupt] key is pressed, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.
	03	Shifter operation check	The shifter is reciprocated 4 times. During the process, the display section displays the sub code. After completion of the process, the machine goes to the sub code input standby mode. When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated. To stop the shifter, however, stop is in the home position.
	11	Shifter home position check	The shifter is moved in one direction by the specified steps. The 7-seg LED displays the sub code. While the shifter is moving, the shifter HP sensor is monitored. While the sensor is ON, the machine position jam lamp is lighted. 3 key: Step toward the front 4 key: Step toward the rear 5 key: Initial When the [Interrupt] key is pressed during the process, the machine goes to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.
05	01	Operation panel display check	**<<LED check mode (ALL ON/Individual ON)>>** When the [START] key is pressed in the sub code input mode, all the LED's (including the 7-seg lamps) are turned ON. After 5 sec of all ON, the machine goes to the sub code input standby mode. When the [Mode select] key is pressed during all ON, the lighting mode is shifted to the individual ON mode, where the LED's are individually lighted from the left top, to the left bottom, to the next line top, to the bottom, and so on. (For the 7-seg lamps, the 3-digit lamps are lighted at once.) After completion of lighting of all the lamps, the mode is shifted to the all ON mode. After 5 sec of all ON mode, the machine goes to the sub code input standby mode. Individual ON mode cycle: 300ms for ON 20ms for OFF When the [Interrupt] key is pressed in the LCD check mode, the machine goes back to the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated. When the [START] key is pressed with all the lamps ON, the machine goes back to the key input check mode. **<< Key input check mode>>** When the machine goes into the key input check mode, [- - -] is displayed on the copy quantity display. Every time when a key on the operation panel is pressed, the input value is added on the copy quantity display. [- - -] → [1] → [2] → •••. When a key is pressed once, it is not counted again. When the [START] key is pressed, the input number is added and displayed for 3 sec, and the machine goes into the LED lighting check mode (LED all ON state). When the [Interrupt] key is pressed for the first time, it is counted. When the key is pressed for the second time, the machine goes into the sub code input mode. When the [CA] key is pressed for the first time, it is counted. When the key is pressed for the second time, the simulation is terminated. (Note for the key input check mode). •Press the [START] key at the end. (When the key is pressed during the process, the machine goes into the LED lighting check mode (all ON state).). •When two or more keys are pressed simultaneously, they are ignored.
	02	Fusing lamp and cooling fan operation check	When the [START] key is pressed, the fusing lamp turns ON for 500ms and OFF for 500ms. The operation is repeated 5 times. During this process, the cooling fan motor rotates. After completion of the process, the machine goes into the sub code input standby mode.
	03	Copy lamp lighting check	When the [START] key is pressed, the copy lamp lights up for 5 sec. After completion of lighting, the machine goes into the sub code input mode. When the [Interrupt] key is pressed, the process is interrupted and the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>06</td><td>01</td><td>Paper feed solenoid operation check</td><td>When this simulation is executed, the sub code is displayed on the 7-seg LED and the lamp corresponding to the solenoid lights up.
Select a solenoid with the tray select key (the lamp corresponding to the solenoid lights up) and press the [START] key, and the machine repeats operation of ON for 500ms and OFF for 500ms. This operation is repeated 20 times.
After that, the machine goes into the sub code entry standby mode.
<table><tr><th>Display lamp</th><th>Solenoid</th></tr><tr><td>Main cassette lamp</td><td>Main cassette paper feed solenoid</td></tr><tr><td>2nd cassette lamp</td><td>* 2nd cassette paper feed solenoid</td></tr><tr><td>3rd cassette lamp</td><td>* 3rd cassette paper feed solenoid</td></tr><tr><td>4th cassette lamp</td><td>* 4th cassette paper feed solenoid</td></tr><tr><td>Manual paper feed lamp</td><td>Manual paper feed solenoid</td></tr><tr><td>2nd cassette jam lamp</td><td>* 2nd cassette paper transport solenoid</td></tr><tr><td>Machine jam lamp & 2nd cassette jam lamp</td><td>* 3rd cassette transport solenoid</td></tr></table>* Supported for the installed models only. Skipped for the models without installation.</td></tr>
<tr><td></td><td>02</td><td>Resist roller solenoid operation check</td><td>When the [START] key is pressed in the sub code input state, the resist solenoid (RRS) turns ON for 500ms and OFF for 500ms. This operation is repeated 20 times.
After completion of the process, the machine goes into the sub code input standby mode.</td></tr>
<tr><td></td><td>10</td><td>Main cassette semicircular roller cleaning</td><td>The main motor is rotated to rotate the semicircular roller of the main cassette one turn to face the semicircular roller down. (Remove the developing layer when performing this operation.)
During this process, the sub code is displayed on the display section.
After completion of the process, the machine goes into the sub code input standby mode.</td></tr>
<tr><td>07</td><td>01</td><td>Warm-up display and aging with jam</td><td>Copying is repeated to make the set copy quantity. When this simulation is executed, warm-up is started and warm-up time is counted up every second from 0 and displayed. After completion of warm-up, warm-up time count is stopped. When the [CA] key is pressed, the ready lamp lights up. After that, when the copy quantity is inputted with keys and the [START] key is pressed, copying is repeated to make the set copy quantity. (Intermittent 0 sec)This simulation is canceled by turning off the power or performing a simulation that executes hardware reset.</td></tr>
<tr><td></td><td>06</td><td>Intermittent aging</td><td>Copying is repeated to make the set copy quantity. When this simulation is performed, warm-up is performed and the ready lamp is lighted. Enter the copy quantity with the key and press the [START] key, and copying is repeated to make the set copy quantity, the ready state remains for 3 sec, and copying is repeated again to make the set copy quantity. These operations are repeated.
This simulation is canceled by turning off the power or performing a simulation that executes hardware reset.</td></tr>
<tr><td></td><td>08</td><td>Shifting with warm-up display (Shifting similar to pressing the CA key)</td><td>When the simulation code is entered, warm-up is started and warm-up time is counted up every second from 0 and displayed. When the [CA] key is pressed during counting up, the display section displays "0" and count-up process stops. However, warm-up is continued.
After completion of warm-up, counting is stopped. Press the [CA] key to terminate the simulation mode. (This simulation is similar to SIM07-01, but without the aging function.)</td></tr>
<tr><td>08</td><td>01</td><td>Developing bias output</td><td>When the [START] key is pressed, the developing bias signal is turned ON for 30 sec.
However, to calculate the actual output value is calculated, execute SIM25-01.
After completion of the process, the machine goes into the sub code input standby mode.</td></tr>
<tr><td></td><td>02</td><td>Main charger output (Grid = HIGH)</td><td>When the [START] key is pressed, the main charger output is supplied for 30 sec in the grid voltage HIGH mode. After completion of the process, the machine goes into the sub code input standby mode.</td></tr>
<tr><td></td><td>03</td><td>Main charger output (Grid = LOW)</td><td>When the [START] key is pressed, the main charger output is supplied for 30 sec in the grid voltage LOW mode. After completion of the process, the machine goes into the sub code input standby mode.</td></tr>
<tr><td></td><td>06</td><td>Transfer charger output</td><td>Select an output mode with the [Mode select] key and press the [START] key. The transfer charger output is delivered for 30 sec in the selected mode.
After 30 sec of transfer charger output, the machine goes into the sub code entry standby mode.
<table><tr><th>Display lamp</th><th>Output mode</th></tr><tr><td>AE mode lamp</td><td>Normal size width: Front surface</td></tr><tr><td>TEXT mode lamp</td><td>Normal size width: Back surface</td></tr><tr><td>AE mode lamp & PHOTO mode lamp</td><td>Small size width: Front surface</td></tr><tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>Small size width: Back surface</td></tr><tr><td>AE & TEXT & PHOTO mode lamp</td><td>Manual paper feed mode</td></tr></table>•Small size is Letter R (A4R) or smaller.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>09</td><td>01</td><td>Duplex motor forward rotation check</td><td>The duplex motor is driven in forward direction (in the paper exit direction) for 30 sec.
During the process, the display section displays the sub code.
After completion of the process, the machine goes into the sub code input standby mode.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>02</td><td>Duplex motor reverse rotation check</td><td>The duplex motor is driven in reverse direction for 30 sec.
During the process, the display section displays the sub code.
After completion of the process, the machine goes into the sub code input standby mode.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>04</td><td>Duplex motor RPM adjustment</td><td>When any key input is made, it is displayed on the display section.
When the [START] key is pressed, the set code data are acquired and stored in the EEPROM, and the machine goes into the sub code input standby mode.
When, however, the [START] key is pressed outside the set range, it is not assured.
<table><tr><td>Set range: 1 - 13</td><td>Default: 4</td></tr></table>At that time, when the [Interrupt] key is pressed, the data are not rewritten and the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated without rewriting the data.</td></tr>
<tr><td></td><td>05</td><td>Duplex motor switchback time adjustment</td><td>When any key input is made, it is displayed on the display section. When the [START] key is pressed, the set code data are acquired and stored in the EEPROM, and the machine goes into the sub code input standby mode.
<table><tr><td>Set range: 50 ~ 76</td><td>Default: 50</td></tr></table>(Change quantity 1 → 1-2 phase 3 steps)
At that time, when the [Interrupt] key is pressed, the data are not rewritten and the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated without rewriting the data.</td></tr>
<tr><td>10</td><td>-</td><td>Toner motor operation</td><td>When the [START] key is pressed, the toner motor is driven for 30 sec.
After completion of the process, the machine goes into the main code input standby mode.
When the [Interrupt] key is pressed, the machine goes into the main code input standby mode.</td></tr>
<tr><td>14</td><td>-</td><td>Trouble cancel (except for U2)</td><td>* Trouble to write into the EEPROM such as H trouble is canceled and hardware reset is performed.</td></tr>
<tr><td>16</td><td>-</td><td>U2 trouble cancel</td><td>* U2 trouble is canceled and hardware reset is performed.</td></tr>
<tr><td>20</td><td>01</td><td>Maintenance counter clear</td><td>When the [Start] key is pressed, the maintenance count value is cleared and "000000" is displayed.
(Alternate display of "000" and "000")</td></tr>
<tr><td>21</td><td>01</td><td>Maintenance cycle setting</td><td>The current set maintenance cycle code is displayed (initial display), and the set data are stored.
<table><tr><th>Code</th><th>Setting</th></tr><tr><td>0</td><td>5,000 sheets</td></tr><tr><td>1</td><td>7,500 sheets</td></tr><tr><td>2</td><td>10,000 sheets</td></tr><tr><td>3</td><td>25,000 sheets</td></tr><tr><td>4</td><td>50,000 sheets * Default</td></tr><tr><td>5</td><td>Free (999,999 sheets)</td></tr></table></td></tr>
<tr><td></td><td>02</td><td>Mini maintenance cycle setting (Valid only when the destination is set to Japan AB series.)</td><td>The current set maintenance cycle code is displayed (initial display), and the set data are stored.
<table><tr><th>Code</th><th>Setting</th></tr><tr><td>0</td><td>5,000 sheets * Default</td></tr><tr><td>1</td><td>10,000 sheets</td></tr><tr><td>2</td><td>Free (999,999 sheets)</td></tr></table></td></tr>
<tr><td>22</td><td>01</td><td>Maintenance counter display</td><td>The maintenance counter value is displayed.</td></tr>
<tr><td></td><td>02</td><td>Maintenance preset display (Valid only when the destination is set to EX Japan)</td><td>The copy quantity corresponding to the code that is set with SIM21-01 is displayed.
(For example: 50,000 sheets)</td></tr>
<tr><td></td><td>03</td><td>Jam memory display</td><td>The LED of the latest jam position is lighted. Every time when the magnification ratio display key is pressed, the jam memory data is acquired sequentially from the latest. The jam position is judged by the acquired data and the corresponding LED is lighted. The 7-seg display indicates the jam number. At that time, "A" is displayed on the upper first digit. When the last one is displayed, the latest one will be displayed again. Max. 30 jams from the latest are stored. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>04</td><td>Jam total counter display</td><td>The jam total counter value is displayed.</td></tr>
<tr><td></td><td>05</td><td>Total counter display</td><td>The total counter value is displayed.</td></tr>
<tr><td></td><td>06</td><td>Developing counter display</td><td>The developing counter data is acquired and displayed on the 7-seg display.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>22</td><td>07</td><td>Mini maintenance preset display (Valid only when the destination is set to Japan AB series)</td><td>The mini maintenance cycle data is acquired and displayed on the 7-seg display.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>08</td><td>SPF counter display</td><td>The SPF counter value is displayed.</td></tr>
<tr><td></td><td>09</td><td>Paper feed counter display</td><td>The counter value of the selected paper feed section is acquired from each variable, the data is displayed on the 7-seg display according to the regulations. When this simulation is executed, the value of the first cassette is displayed first. Press the tray select key to select the paper feed tray.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>12</td><td>Drum counter display</td><td>The drum counter and the drum rotating time are displayed.
To change the display mode, press the [Mode select] key.<table><tr><td>Display lamp</td><td>Display mode</td></tr><tr><td>AE mode lamp</td><td>Drum counter</td></tr><tr><td>TEXT mode lamp</td><td>Drum rotating time</td></tr></table></td></tr>
<tr><td></td><td>13</td><td>CRUM destination display</td><td>When this simulation is executed, the CRUM destination set (written) in the CRUM chip is displayed.
This simulation is valid only for the models where the CRUM is valid.<table><tr><th>7-seg display</th><th>Meaning (CRUM destination)</th><th>7-seg display</th><th>Meaning (CRUM destination)</th></tr><tr><td>00</td><td>Not set yet</td><td>04</td><td>BTA-E</td></tr><tr><td>01</td><td>BTA-A</td><td>99</td><td>Conversion</td></tr><tr><td>02</td><td>BTA-B</td><td>12</td><td>AL series</td></tr><tr><td>03</td><td>BTA-C</td><td></td><td></td></tr></table></td></tr>
<tr><td></td><td>14</td><td>P-ROM version display</td><td>The P-ROM version is displayed on the copy quantity display. The main code and the sub code are alternatively displayed by 2 digits. The display interval is same as that of the counter display.
By pressing the fixed magnification ratio key, each version display is switched.<table><tr><th>Display lamp (AB series)</th><th>Display lamp (Inch series)</th><th>Displayed version</th></tr><tr><td>141%</td><td>141%</td><td>Machine program</td></tr><tr><td>115%</td><td>121%</td><td>IMC program</td></tr></table></td></tr>
<tr><td></td><td>15</td><td>Trouble memory display</td><td>The trouble codes up to the latest one are acquired from the trouble memory data.
Every time when the magnification ratio display is pressed, the main code of the trouble is displayed on the 1st ~ 2nd digit.
* The latest 20 troubles are stored in the memory.
The 3rd digit indicates the trouble history code, "A" ~ "J" (meaning of 1 ~ 10).
After "J" is displayed, "A" ~ "J" blinks. (Meaning of 11 ~ 20)
After "J" blinks (meaning of 20), "A" ~ "J" is lighted. (Returns to 1.)
When the [START] key is pressed, the sub code is displayed.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.
* Note that when the history code blinks, the trouble code and the sub code do not blink.</td></tr>
<tr><td></td><td>16</td><td>Duplex print counter display</td><td>Data is acquired from the duplex print counter variable, and is displayed.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>17</td><td>Copy counter display</td><td>The copy counter value is displayed. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>18</td><td>Printer counter display</td><td>The printer counter value is displayed. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>19</td><td>Scanner mode counter display</td><td>The scanner mode counter value is displayed. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>21</td><td>Scanner counter display</td><td>The scanner counter value is displayed. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>22</td><td>SPF jam counter display</td><td>The SPF jam counter value is displayed. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td>24</td><td>01</td><td>Jam total counter clear</td><td>When the [START] key is pressed, the jam total count value is reset to zero, and zero is displayed.</td></tr>
<tr><td></td><td>02</td><td>Trouble memory clear</td><td>The trouble memory and the EEPROM trouble history data are cleared and "000" is displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>04</td><td>SPF counter clear</td><td>When the [START] key is pressed, the SPF count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>05</td><td>Duplex print counter clear</td><td>The duplex print count data is cleared, and zero is displayed on the 7-seg display.
When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode.
When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>06</td><td>Paper feed counter clear</td><td>The paper feed counter data of each paper feed section is cleared, and "000" is displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>24</td><td>07</td><td>Drum counter clear</td><td>When the [START] key is pressed, the drum count and the drum roasting time are reset to zero, and the drum counter value is displayed on the 7-seg LED. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>08</td><td>Copy counter clear</td><td>When the [START] key is pressed, the copy count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>09</td><td>Printer counter clear</td><td>When the [START] key is pressed, the printer count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>13</td><td>Scanner counter clear</td><td>When the [START] key is pressed, the scanner count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>14</td><td>SPF jam total counter clear</td><td>When the [START] key is pressed, the SPF jam total count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td></td><td>15</td><td>Scanner mode counter clear</td><td>When the [START] key is pressed, the scanner mode count value is reset to zero and displayed on the 7-seg display. When the [Interrupt] key is pressed, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated.</td></tr>
<tr><td>25</td><td>01</td><td>Main motor operation check (Cooling fan motor rotation check)</td><td>When the [START] key is pressed, the main motor (together with the duplex motor for the duplex model) is driven for 30 sec. At that time, to save toner consumption, if the developing until is installed, the developing bias, the main charger, and the grid are outputted. Since, in that case, laser discharge is required when the motor stops, the polygon motor is driven simultaneously. Check if the developing unit is installed or not. If it is not installed, the above high voltage is not outputted and only the motor is rotated. After completion of 30 sec operation, the machine goes into the sub code input standby mode.
* This simulation must not be executed by forcibly turning on the door open/close switch.</td></tr>
<tr><td></td><td>10</td><td>Polygon motor operation check</td><td>When the [START] key is pressed, the polygon motor is rotated for 30 sec. After completion of 30 sec operation, the machine goes into the sub code input standby mode.</td></tr>
<tr><td>26</td><td>02</td><td>Size setting</td><td>Used to set Enable/Disable of the FC (8.5" x 13") size detection.
<table>
<tr><th>Code number</th><th colspan="2">Setting</th></tr>
<tr><td>0</td><td>FC detection Disable</td><td>* Default except for the following</td></tr>
<tr><td>1</td><td>FC detection Enable</td><td>* Default only for SCA/Philippines</td></tr>
</table>
Detection size when a document of the FC ((8.5" x 13") size is used
<table>
<tr><th></th><th>Unit to be used</th><th>Destination</th><th>Document size</th><th colspan="2">Setting</th></tr>
<tr><th></th><th></th><th></th><th></th><th>0 (Disable)</th><th>1 (Enable)</th></tr>
<tr><td rowspan="4">Document</td><td rowspan="4">SPF</td><td rowspan="2">EX Japan AB series (FC)</td><td>FC (8.5" x 13")</td><td>B4</td><td>FC (8.5" x 13")</td></tr>
<tr><td>B4</td><td>B4</td><td>FC (8.5" x 13")</td></tr>
<tr><td rowspan="2">Inch series (FC)</td><td>FC (8.5" x 13")</td><td>LG (8.5" x 14")</td><td>FC (8.5" x 13")</td></tr>
<tr><td>LG (8.5" x 14")</td><td>LG (8.5" x 14")</td><td>FC (8.5" x 13")</td></tr>
</table>
•For the other destinations, this setting is disabled.</td></tr>
<tr><td></td><td>03</td><td>Auditor setting</td><td>Used to set the auditor.
<table>
<tr><th>Code number</th><th>Mode</th></tr>
<tr><td>0</td><td>Built-in auditor mode</td></tr>
<tr><td>1</td><td>Coin vendor mode</td></tr>
<tr><td>2</td><td>Other</td></tr>
</table>
* When the coin vendor mode is selected, if the auditor setup is ON and the standard tray is manual feed tray, the standard tray setup must be changed to the main cassette.</td></tr>
<tr><td></td><td>04</td><td>Copier duplex setting</td><td>When this simulation is executed, the current set duplex code number is displayed. Enter the desired code number of duplex setting and press the [START] key, and the entered code number is set.
<table>
<tr><th>Code number</th><th>Mode</th></tr>
<tr><td>0</td><td>Without duplex</td></tr>
<tr><td>1</td><td>With duplex</td></tr>
</table>
* When this simulation is executed, the binding margin setup is automatically set to the default (left side).</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>26</td><td>05</td><td>Count mode setting</td><td>When any key input is made, it is displayed on the display section. When the [START] key is pressed, the set code data are acquired and stored to the count mode set variable and in the EEPROM, and the machine goes into the sub code input standby mode. However, if the [START] key is pressed outside the set range, it is not assured. At that time, when the [Interrupt] key is pressed, the data are not rewritten and the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation is terminated without rewriting the data.
[*1 : Total counter / Developer counter *2 : maintenance counter]
<table>
<tr><td>0:</td><td>*1= Double count</td><td>*2= Double count</td></tr>
<tr><td>1:</td><td>*1= Single count</td><td>*2 = Double count</td></tr>
<tr><td>2:</td><td>*1= Double count</td><td>*2= Single count</td></tr>
<tr><td>3:</td><td>*1= Single count</td><td>*2= Single count</td></tr>
</table></td></tr>
<tr><td></td><td>06</td><td>Destination setting</td><td>When this simulation is executed, the current set destination code number is displayed. Enter the desired code number of the destination and press the [START] key to set the destination.
<table>
<tr><th>Code number</th><th>Destination</th></tr>
<tr><td>0</td><td>Japan AB series</td></tr>
<tr><td>1</td><td>Inch series</td></tr>
<tr><td>2</td><td>EX Japan AB series</td></tr>
<tr><td>3</td><td>EX Japan inch series</td></tr>
<tr><td>4</td><td>EX Japan AB series (FC)</td></tr>
<tr><td>5</td><td>China (EX Japan AB series + China paper support)</td></tr>
<tr><td>6</td><td>Taiwan (EX Japan AB series + China paper support)</td></tr>
</table>
If this setting is changed, SIM46-19 setting is also changed accordingly.
(The paper size is also changed: AB series is changed to A4, and Inch series to Letter.
The AE limit setup is set to the default.
When the destination is changed (from Japan to EX Japan or from EX Japan to Japan),
the maintenance cycle is also set to the default accordingly.)</td></tr>
<tr><td></td><td>07</td><td>Machine condition check (CPM)</td><td>When this simulation is executed, the current setting of the machine is displayed.
<table>
<tr><th>7-seg display</th><th>Meaning (CPM information)</th></tr>
<tr><td>15</td><td>15CPM</td></tr>
<tr><td>16</td><td>16CPM</td></tr>
<tr><td>20</td><td>20CPM</td></tr>
</table></td></tr>
<tr><td></td><td>18</td><td>Toner save mode setting</td><td>Used to set ON/OFF of the toner save mode.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Toner save OFF</td></tr>
<tr><td>1</td><td>Toner save ON</td></tr>
</table>
* The toner save mode of the user program is also changed accordingly.</td></tr>
<tr><td></td><td>30</td><td>CE mark conformity control ON/ OFF</td><td>When this simulation is executed, the current set code number of CE mark conformity is displayed. Enter the desired code number of CE mark conformity and press the [START] key to set the code number.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>CE mark conformity control OFF *Default for 100V system</td></tr>
<tr><td>1</td><td>CE mark conformity control ON</td></tr>
</table></td></tr>
<tr><td></td><td>31</td><td>Auditor mode exclusive setup</td><td>Used to set whether the manual fed tray can be used or not when the auditor mode is set to the coin vendor mode.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Exclusive setup OFF (Manual paper feed allowed)</td></tr>
<tr><td>1</td><td>Exclusive setup ON (Manual paper fed inhibited)</td></tr>
</table>
* When this is set to "Exclusive setup ON," if the auditor is set to the coin vendor mode and the standard tray is set to the manual feed tray, the standard tray must be set to the main cassette.</td></tr>
<tr><td></td><td>36</td><td>Cancel of stop at maintenance life over</td><td>Used to set stop at maintenance life over.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Stop at maintenance life over</td></tr>
<tr><td>1</td><td>Cancel of stop at maintenance life over * Default</td></tr>
</table></td></tr>
<tr><td></td><td>37</td><td>Cancel of stop at developer life over</td><td>When this simulation is executed, the current set code number is displayed. Enter the desired code number and press the [START] key to set the code number. The machine goes into the sub code input state.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Stop at developer life over</td></tr>
<tr><td>1</td><td>Cancel of stop at developer life over</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>26</td><td>38</td><td>Cancel of stop at drum life over</td><td>When this simulation is executed, the current set code number is displayed. Enter the desired code number and press the [START] key to set the code number.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Stop at drum life over</td></tr>
<tr><td>1</td><td>Cancel of stop at drum life over</td></tr>
</table></td></tr>
<tr><td></td><td>39</td><td>Memory capacity check</td><td>When this simulation is executed, the current memory capacity is displayed.
<table>
<tr><th>7-seg display</th><th>Meaning (Memory capacity)</th></tr>
<tr><td>16</td><td>16MByte</td></tr>
<tr><td>32</td><td>32MByte</td></tr>
</table></td></tr>
<tr><td></td><td>42</td><td>Transfer ON/OFF timing control setting</td><td>When this simulation is executed, the current setting value of transfer ON timing is displayed.
Enter a set value and press the [START] key to set the entered value, and the machine will go into the sub code input standby mode.
When the [Mode select] key is pressed, the ON timing setting and the OFF timing setting are alternatively selected. At that time, the setting is saved and written into the EEPROM.
<table>
<tr><th>Display lamp</th><th>Setting mode</th><th>Default</th></tr>
<tr><td>AE mode lamp</td><td>Transfer ON timing</td><td>50</td></tr>
<tr><td>TEXT mode lamp</td><td>Transfer OFF timing</td><td>50</td></tr>
</table>
•Setting range: 1 ~ 99
When the setting value is increased by 1, time is increased by 2ms.
•The default, 50, of transfer ON timing means "344ms passed from PS release."
The default, 50, of transfer OFF timing means "304ms passed from P-IN OFF."</td></tr>
<tr><td></td><td>43</td><td>Side void amount setting</td><td>Used to set the side void amount on the both sides.
Enter a set value with the 10-key and press the [START] key, and the entered value will be saved and the machine will go into the sub code input standby mode.
The setting range is 0 ~ 10. When the set value is increased by 1, the void amount is increased by 0.5mm. The default is 3 (= 1.5mm).
To select the setting mode, press the [Exposure mode select] key. The set value of the selected mode is displayed on the copy quantity display. At that time, the set value is also saved.
<table>
<tr><th>Display lamp</th><th>Setting mode</th></tr>
<tr><td>AE mode lamp</td><td>Side void amount (Right)</td></tr>
<tr><td>TEXT mode lamp</td><td>Side void amount (Left)</td></tr>
</table>
* When the setting value is increased by 1, time is increased by 0.5ms.</td></tr>
<tr><td></td><td>51</td><td>Copy temporary stop function setting</td><td>When any key is pressed, it is displayed on the display section. When the [START] key is pressed, the set code data is acquired and stored to the setting variable of sort/group copy temporary stop function and to the EEPROM. The machine goes into the sub code input standby mode.
<table>
<tr><th>Code number</th><th>Setting</th></tr>
<tr><td>0</td><td>Not stop</td></tr>
<tr><td>1</td><td>Stop * Default</td></tr>
</table>
When the [Interrupt] key is pressed at that time, the machine goes into the sub code input standby mode without rewriting the data. When the [CA] key is pressed, the simulation mode is terminated without rewriting the data.
* When this is set to "Stop," temporary stop is made for every 250 copies in one copy job.</td></tr>
<tr><td>30</td><td>01</td><td>Paper sensor status display</td><td>The paper sensor status is displayed with the lamps on the operation panel.
* When each sensor detects paper, the corresponding lamp turns on.
<table>
<tr><th>Display lamp</th><th>Sensor name</th></tr>
<tr><td>Developer lamp</td><td>Paper exit sensor</td></tr>
<tr><td>Machine jam lamp</td><td>Duplex sensor</td></tr>
<tr><td>Toner lamp</td><td>Paper entry sensor</td></tr>
<tr><td>Manual paper feed lamp</td><td>Manual feed paper empty sensor</td></tr>
<tr><td>No. 1 cassette lamp</td><td>No. 1 tray paper empty sensor</td></tr>
<tr><td>No. 2 cassette lamp</td><td>No. 2 tray paper empty sensor</td></tr>
<tr><td>No. 3 cassette lamp</td><td>No. 3 tray paper empty sensor</td></tr>
<tr><td>No. 4 cassette lamp</td><td>No. 4 tray paper empty sensor</td></tr>
<tr><td>Tray jam lamp 1</td><td>No. 2 tray paper feed sensor</td></tr>
<tr><td>Tray jam lamp 2</td><td>No. 3 tray paper feed sensor</td></tr>
<tr><td>Paper empty lamp</td><td>No. 4 tray paper feed sensor</td></tr>
</table></td></tr>
<tr><td>42</td><td>01</td><td>Developing counter clear</td><td>The developer counter data in the EEPROM is cleared and 0 is displayed on the 7-seg display.
When the [Interrupt] key is pressed at that time, the machine goes into the sub code input standby mode. When the [CA] key is pressed, the simulation mode is terminated.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>43</td><td>01</td><td>Fusing temperature setting (During normal copy)</td><td>When the simulation is terminated, the current set value is displayed. When the [%] key is pressed, the setting is changed. When the [START] key is pressed, the set content is written into the EEPROM and the machine goes into the sub code input standby mode.
<table><tr><th>Set temperature (°C)</th><th>Set temperature (°C)</th></tr><tr><td>160
165
170 * Default
175
180</td><td>185
190
195
200</td></tr></table></td></tr>
<tr><td></td><td>10</td><td>Postcard paper feed cycle setting</td><td>Used to set the paper feed cycle timing in postcard printing. (Pickup interval)[1] ~ [99] (Center [50], Unit: 100msec)(Example: When 50, pickup interval = 100msec x 50)</td></tr>
<tr><td></td><td>11</td><td>Postcard size paper fusing temperature setting</td><td>When this simulation is executed, the current set value is displayed. When the [%] key is pressed, the setting is changed. When the [START] key is pressed, the set content is written into the EEPROM and the machine goes into the sub code input standby mode.
<table><tr><th>Set temperature (°C)</th><th>Set temperature (°C)</th></tr><tr><td>160
165
170
175
180</td><td>185
190
195 * Default
200</td></tr></table></td></tr>
<tr><td></td><td>12</td><td>Standby mode fusing fan rotation setting</td><td>When this simulation is executed, the current set code number is displayed. Enter the desired code number and press the [START] key to set the code number.
<table><tr><th>Code number</th><th>Setting</th></tr><tr><td>0
1</td><td>Low speed rotation *Default
High speed rotation</td></tr></table></td></tr>
<tr><td></td><td>13</td><td>Fusing paper interval control allow/ inhibit setting</td><td>Used to set the paper feed timing of 21st and later page to A3 or WLT when multi copying or printing paper of narrow width. (A3 or WLT depends on the destination.)
When this simulation is executed, the currently set code number is displayed. Enter a desired code number and press the [START] key, and the entered code number is written into the EEPROM and the machine goes into the sub code entry standby mode.
<table><tr><th>Code number</th><th>Setting</th></tr><tr><td>0
1</td><td>Inhibit * Default
Allow</td></tr></table><Applicable paper>
1) Cassette paper feed: A4R, B5R, 8-1/2" X 14", 8-1/2" X 13", 8-1/2" X 11", A5, INV
2) Manual paper feed: A4R, B5R, 8-1/2" X 14", 8-1/2" X 13", 8-1/2" X 11", A5, INV,16KR
* A5 size for manual paper feed is valid only for EX Japan AB series.</td></tr>
<tr><td>44</td><td>34</td><td>Transfer current setting</td><td>Used to set the transfer current for the front surface and that for the back surface. When this simulation is executed, the current set value is displayed on the 7-seg display. Select the set value with the zoom (Up/Down) keys and press the [START] key, and the set content is written into the EEPROM and the machine goes into the sub code input standby mode. Press the [Mode select] key to select each setting mode. At that time, the setup content is written into the EEPROM.
The set range is 90uA ~ 360uA in the increment of 10uA.
<table><tr><th>Display lamp</th><th>Setting mode</th></tr><tr><td>AE mode lamp
TEXT mode lamp
AE mode lamp & PHOTO mode lamp
TEXT mode lamp & PHOTO mode lamp
AE & TEXT & PHOTO mode lamps</td><td>Normal size width: Front
Normal size width: Back
Small size width: Front
Small size width: Back
Manual paper feed</td></tr></table>* Small size paper must be Letter R (A4R) or smaller.
* For the special size of tray, use the normal size width.</td></tr>
<tr><td></td><td>40</td><td>Setting of rotation time before toner supply</td><td>Used to set the time interval between start of rotation (ready) of the main motor and start of toner supply in previous rotation after supplying the power. [1] ~ [99] (Default [8], unit: sec)</td></tr>
</table>

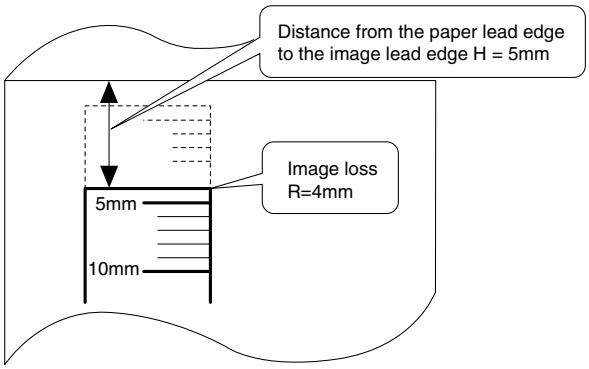
<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>46</td><td>01</td><td>Copy density adjustment (300dpi)</td><td>Used to set the copy density for each mode.
(Operating procedure)
When this simulation is executed, warm-up and shading are operated, and the current set value is displayed in two digits. (Default [50])
* The density LED is not lighted.
Change the set value and press the [START] key, and a copy is made according to the set value. The greater the set value is, the darker the density is, and vise versa. In this case, only a copy at Exp. 3 can be made. When, however, the density is set darker, Exp.1 and Exp. 5 become darker, too.
If the dentistry is set lighter, Exp. 1 and Exp. 5 become lighter, too. To select a desired copy mode, press the [Copy mode select] key. The selected copy mode set value is displayed on the copy quantity display. (Adjustment range: 1 ~ 99)
<table>
<tr><th>Display lamp</th><th>Copy mode</th></tr>
<tr><td>AE mode lamp</td><td>AE mode (300dpi)</td></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode (300dpi)</td></tr>
<tr><td>PHOTO mode lamp</td><td>PHOTO mode</td></tr>
<tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>TS mode (TEXT) (300dpi)</td></tr>
<tr><td>AE mode lamp & PHOTO mode lamp</td><td>TS mode (AE) (300dpi)</td></tr>
</table></td></tr>
<tr><td></td><td>02</td><td>Copy density adjustment (600dpi)</td><td>Used to set the copy density for each mode.
(Operating procedure)
When this simulation is executed, warm-up and shading are operated, and the current set value is displayed in two digits. (Default [50])Change the set value and press the [START] key, and a copy is made according to the set value. The greater the set value is, the darker the density is, and vise versa. In this case, only a copy at Exp. 3 can be made.
When, however, the density is set darker, Exp.1 and Exp. 5 become darker, too.
If the dentistry is set lighter, Exp. 1 and Exp. 5 become lighter, too.
To select a desired copy mode, press the [Copy mode select] key.
The selected copy mode set value is displayed on the copy quantity display.
(Adjustment range: 1 ~ 99)
<table>
<tr><th>Display lamp</th><th>Copy mode</th></tr>
<tr><td>AE mode lamp</td><td>AE mode (600dpi)</td></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode (600dpi)</td></tr>
<tr><td>PHOTO mode lamp</td><td>PHOTO mode</td></tr>
<tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>TS mode (TEXT) (600dpi)</td></tr>
<tr><td>AE mode lamp & PHOTO mode lamp</td><td>TS mode (AE) (600dpi)</td></tr>
</table></td></tr>
<tr><td></td><td>09</td><td>Copy exposure level adjustment, individual setting (Text) 300dpi</td><td>Used to adjust the shift amount and the inclination value for each density level (1 ~ 5) when the exposure mode is the TEXT mode (including TS)
•The shift amount is the same as the gamma (gradation), and is used to set the overall brightness.
When the shift amount is increased, the overall brightness is decreased.
When the shift amount is decreased, the overall brightness is increased
•The inclination value changes the gamma (gradation).
When the set value is increased, the gamma is increased to increase the contrast.
(Clearer black and white images)
When the set value is decreased, the gamma is decreased to decrease the contrast.
(Increased gradation)
* Press the [%] key to switch between the shift amount and the inclination value.
The 7-seg display shows the mode.
The initial display is "Shift.
Shift is indicated as "b" (Brightness).
Inclination is indicated as "c" (Contrast).
(Example)
[b50] → [%T] key → [c50] → [%] key → [b50] → [%] key → [c50] → •••
* Select the adjustment level with the [Density adjust] key.
The density LED displays the selected level (Exp. 1 ~ Exp. 5)
* Select TEXT or TEXT (TS) with the [Mode select] key.
<table>
<tr><th>Mode lamp</th><th>Exposure mode to be adjusted</th></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode</td></tr>
<tr><td>TEXT mode lamp & PHOT mode lamp</td><td>TEXT (TS) mode</td></tr>
</table>
* Change the shift amount and the inclination value with the 10-key.
The set range is [1] ~ [99]. The default is [50].
Change the set value and press the [START] key, and a copy is made at the set value.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td rowspan="2">46</td><td>10</td><td>Copy exposure level adjustment, individual setting (Text) 600dpi</td><td>Used to adjust the shift amount and the inclination value for each density level (1 ~ 5) when the exposure mode is the TEXT mode (including TS)
•The shift amount is the same as the gamma (gradation), and is used to set the overall brightness.
When the shift amount is increased, the overall brightness is decreased.
When the shift amount is decreased, the overall brightness is increased
•The inclination value changes the gamma (gradation).
When the set value is increased, the gamma is increased to increase the contrast.
(Clearer black and white images)
When the set value is decreased, the gamma is decreased to decrease the contrast.
(Increased gradation)
* Press the [%] key to switch between the shift amount and the inclination value.
The 7-seg display shows the mode.
The initial display is "Shift.
Shift is indicated as "b" (Brightness).
Inclination is indicated as "c" (Contrast).
(Example)
[b50] → [%T] key → [c50] → [%] key → [b50] → [%] key → [c50] → •••
* Select the adjustment level with the [Density adjust] key.
The density LED displays the selected level (Exp. 1 ~ Exp. 5)
* Select TEXT or TEXT (TS) with the [Mode select] key.
<table><tr><th>Mode lamp</th><th>Exposure mode to be adjusted</th></tr><tr><td>TEXT mode lamp</td><td>TEXT mode</td></tr><tr><td>TEXT mode lamp & PHOT mode lamp</td><td>TEXT (TS) mode</td></tr></table>* Change the shift amount and the inclination value with the 10-key.
The set range is [1] ~ [99]. The default is [50].
Change the set value and press the [START] key, and a copy is made at the set value.</td></tr>
<tr><td>11</td><td>Copy exposure level adjustment, individual setting (Photo) 600dpi</td><td>Used to adjust the shift amount and the inclination value for each density level (1 ~ 5) when the exposure mode is the PHOTO mode
•The shift amount is the same as the gamma (gradation), and is used to set the overall brightness.
When the shift amount is increased, the overall brightness is decreased.
When the shift amount is decreased, the overall brightness is increased
•The inclination value changes the gamma (gradation).
When the set value is increased, the gamma is increased to increase the contrast.
(Clearer black and white images)
When the set value is decreased, the gamma is decreased to decrease the contrast.
(Increased gradation)
* Press the [%] key to switch between the shift amount and the inclination value.
The 7-seg display shows the mode.
The initial display is "Shift."
Shift is indicated as "b" (Brightness).
Inclination is indicated as "c" (Contrast).
(Example)
[b50] → [%T] key → [c50] → [%] key → [b50] → [%] key → [c50] → •••
* Select the adjustment level with the [Density adjust] key.
The density LED displays the selected level (Exp. 1 ~ Exp. 5)
* The [Mode select] key is invalid, and the PHOTO lamp lights up.
* Change the shift amount and the inclination value with the 10-key.
The set range is [1] ~ [99]. The default is [50].
Change the set value and press the [START] key, and a copy is made at the set value.</td></tr>
</table>

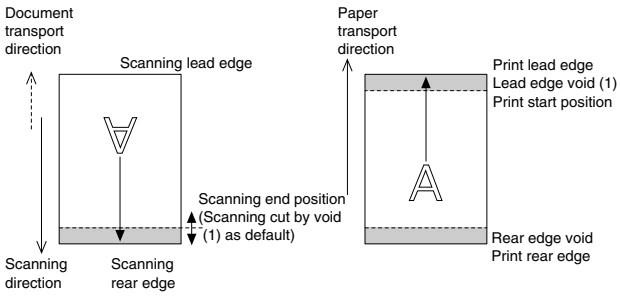
<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>46</td><td>18</td><td>Image contrast adjustment (300dpi)</td><td>
Used to adjust the contrast for each mode.
(Operating procedure)
When this simulation is executed, warm-up and shading are performed, and the current set value is displayed in two digits. (Default: 50)
* The density LED is not lighted.
Change the set value and press the [START] key, and a copy is made according to the set value.
The greater the set value is, the higher the contrast is.
The smaller the set value is, the lower the contrast is.
In this case, only a copy at Exp. 3 is made.
However, the contrasts at Exp.1 and Exp. 5 are also changed accordingly.
To select a desired copy mode, press the [Copy mode select] key.
The selected copy mode set value is displayed on the copy quantity display.
(Adjustment range: 1 ~ 99)
<table>
<tr><th>Display lamp</th><th>Copy mode</th></tr>
<tr><td>AE mode lamp</td><td>AE mode (300dpi)</td></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode (300dpi)</td></tr>
<tr><td>PHOTO mode lamp</td><td>PHOTO mode</td></tr>
<tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>TS mode (TEXT) (300dpi)</td></tr>
<tr><td>AE mode lamp & PHOTO mode lamp</td><td>TS mode (AE) (300dpi)</td></tr>
</table>
</td></tr>
<tr><td></td><td>19</td><td>Exposure mode setting (Gamma table setting / AE operation mode setting / PHOTO image process setting)</td><td>
Used set for the following three exposure mode. Enter a code number and press the [START] key, and the entered number is written into the EEPROM and the machine goes into the sub code entry standby mode. (When the [Copy mode select] key is pressed, the number is written into the EEPROM and the set item is changed.)
<<Gamma table setting>>
When this simulation is executed, the current set code number of gamma table is displayed.
(Default: Japan -1. EX Japan -2)
* When setting the gamma table, no "Mode lamps" are lighted.
<table>
<tr><th>Code number</th><th>Setting (Gamma table)</th></tr>
<tr><td>1</td><td>Image quality priority mode * Default for Japan models</td></tr>
<tr><td>2</td><td>Toner consumption priority mode * Default for EX Japan models</td></tr>
</table>
* If this setting is changed, the set content of SIM46-30 is reset to the default.
<<AE mode>>
When the [Copy mode select] key is pressed in gamma table setting, the mode is changed to the AE operation mode setting and the current set code number of the AE operation mode is displayed.
(Default: 0)
* When setting the AE operation mode, the "AE mode lamp" is lighted.
<table>
<tr><th>Code number</th><th>Setting (AE operation mode)</th></tr>
<tr><td>0</td><td>Lead edge stop * Default</td></tr>
<tr><td>1</td><td>Rear time process</td></tr>
</table>
<Photo image process setting>
When the [Copy mode select] key is pressed during the AE operation mode setting, the setting mode is changed to the photo image process setting and the currently set code number of the photo image process setting is displayed.
* When in the photo image process setting, the [Photo mode lamp] is lighted.
<table>
<tr><th>Code number</th><th>Setting (Photo image process setting)</th></tr>
<tr><td>1</td><td>Error diffusion process</td></tr>
<tr><td>2</td><td>Dither process * Default</td></tr>
</table>
* When this setting is changed, SIM 46-1/2/18/29 and SIM 46-31 Photo items are reset to the default. (SIM 46-11 is also linked.)
</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>46</td><td>20</td><td>SPF exposure correction</td><td>Used to adjust the exposure correction amount in the SPF mode (for the OC mode).
(Operating procedure)
When this simulation is executed, the current set value is displayed.
Enter the adjustment value with the 10-key and press the [START] key.
The entered set value is stored and a copy is made.
When the [INTERRUPT] key is pressed, the entered value is saved and the machine goes into the sub code entry standby mode. When the [CA] key is pressed, the entered value is saved and the simulation is terminated. [1] ~ [99] (Center [50])
* The greater the set value is, the darker the density is. The smaller the set value is, the lighter the density is.
* The exposure mode is TEXT fixed. The LED does not change, either.
The exposure level can not be adjusted.</td></tr>
<tr><td></td><td>29</td><td>Image contrast adjustment (600dpi)</td><td>Used to adjust the contrast for each mode.
(Operating procedure)
When this simulation is executed, warm-up and shading are performed, and the current set value is displayed in two digits. (Default: 50)
The density LED is not lighted.
Change the set value and press the [START] key, and a copy is made according to the set value.
The greater the set value is, the higher the contrast is.
The smaller the set value is, the lower the contrast is.
In this case, only a copy at Exp. 3 is made.
However, the contrasts at Exp.1 and Exp. 5 are also changed accordingly.
To select a desired copy mode, press the [Copy mode select] key.
The selected copy mode set value is displayed on the copy quantity display.
(Adjustment range: 1 ~ 99)
<table>
<tr><th>Display lamp</th><th>Copy mode</th></tr>
<tr><td>AE mode lamp</td><td>AE mode (600dpi)</td></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode (600dpi)</td></tr>
<tr><td>PHOTO mode lamp</td><td>PHOTO mode</td></tr>
<tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>TS mode (TEXT) (600dpi)</td></tr>
<tr><td>AE mode lamp & PHOTO mode lamp</td><td>TS mode (AE) (600dpi)</td></tr>
</table></td></tr>
<tr><td></td><td>30</td><td>AE limit setting</td><td>Used to set the AE and the limit value at AE (toner save).The set range is 0 ~ 31. The default is 0.
Change the setting and press the [START] key, and it will be written into the EEPROM and the machine will go into the sub code input standby mode. When the [Copy mode select] key is pressed, the machine goes back to the gamma table setting mode.
<table>
<tr><th>Display lamp</th><th>Setting mode</th></tr>
<tr><td>AE mode lamp</td><td>Limit value for AE</td></tr>
<tr><td>AE mode lamp $ PHOTO mode lamp</td><td>Limit value for AE (Toner save)</td></tr>
</table>
<Remark>
When SIM26-60 (Destination setting) and SIM46-19 (Auto exposure mode) are changed, this set content of this simulation is also changed to the default.</td></tr>
<tr><td></td><td>31</td><td>Image sharpness adjustment</td><td>Used to adjust clear/shading of image for each mode.
(Operating procedure)
When this simulation is executed, warm-up and shading are performed, and the current set value is displayed in two digits. (Default: 1)
Change the set value and press the [START] key, and a copy is made according to the set value.
<table>
<tr><th>Set value</th><th>Image quality</th></tr>
<tr><td>0</td><td>Shading</td></tr>
<tr><td>1</td><td>Standard *Default</td></tr>
<tr><td>2</td><td>Clear</td></tr>
</table>
Use the [Copy mode select] key to select each copy mode. The code number of the selected copy mode is displayed on the copy quantity display.
<table>
<tr><th>Display lamp</th><th>Copy mode</th></tr>
<tr><td>AE mode lamp</td><td>AE mode</td></tr>
<tr><td>TEXT mode lamp</td><td>TEXT mode</td></tr>
<tr><td>PHOTO mode lamp</td><td>PHOTO mode</td></tr>
<tr><td>TEXT mode lamp & PHOTO mode lamp</td><td>TS mode (TEXT)</td></tr>
<tr><td>AE mode lamp & PHOTO mode lamp</td><td>TS mode (AE)</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>48</td><td>01</td><td>Main scanning/sub scanning direction magnification ratio adjustment</td><td>Used to adjust the magnification ratio in the main scanning direction (front/rear) and the sub scanning direction.
Enter the adjustment value with the 10-key and press the [START] key, and the entered value is saved a copy is made.
(When the set value is increased by 1, the magnification ratio is increased by 0.1 %.)
(Adjustment range: 1 ~ 99, Default: 50)
<table><tr><th>Lighting lamp</th><th>Adjustment mode</th></tr><tr><td>TEXT lamp
PHOTO lamp</td><td>Main scanning direction magnification ratio adjustment
Sub scanning direction magnification ratio adjustment</td></tr></table></td></tr>
<tr><td></td><td>05</td><td>SPF/RSPF mode sub scanning magnification ratio adjustment in copying</td><td>The current SPF/RSPF mode sub scan direction magnification ratio adjustment value is displayed. When the [START] key is pressed, the entered value is acquired and saved into the EEPROM, and a copy is made. When the [CA] key is pressed instead, the simulation mode is terminated.
In RSPF adjustment, after the machine enters the copy mode of one page, select the single copy mode with the duplex key to shift to the single copy mode, making two pages of single copy.
For printing, regardless of the density mode LED and the density level LED display, the density mode = MANUAL, and density level = 3.
<table><tr><th>Lighting lamp</th><th>Adjustment mode</th></tr><tr><td>AE lamp
TEXT lamp</td><td>SPF/RSPF document surface magnification ratio adjustment
RSPF document back magnification ratio adjustment</td></tr></table></td></tr>
<tr><td>49</td><td>01</td><td>Flash ROM program writing mode</td><td>(Operating procedure)
When this simulation is executed, "d" is displayed on the copy quantity display and the machine enters the Flash ROM program writing mode. Use the writing tool on the PC to write the program. During writing, the display is made as follows. After completion of downloading, turn OFF/ON the power to reset.
<table><tr><th>Status</th><th>Copy quantity display</th><th>Pre-heat lamp</th><th>Ready lamp</th></tr><tr><td>Download data reception</td><td>"d"</td><td>ON</td><td>OFF</td></tr><tr><td>Data delete start</td><td>"d"</td><td>ON</td><td>ON</td></tr><tr><td>Data writing (Boot section)</td><td>"d"</td><td>Flash</td><td>OFF</td></tr><tr><td>Data writing (Program section)</td><td>"d"</td><td>Flash</td><td>Flash</td></tr><tr><td>Sum check</td><td>"d"</td><td>ON</td><td>ON</td></tr><tr><td>Completion of downloading</td><td>"OFF"</td><td>OFF</td><td>OFF</td></tr><tr><td>Error status</td><td>"*E"</td><td>OFF</td><td>OFF</td></tr></table>* "*" in the error display indicates the error position.
<table><tr><td>1. Data reception error
2. Loader function transfer
3. Flash ROM delete
4. Flash ROM writing (Boot section)</td><td>5. Flash ROM writing (Program section)
6. Sum check (Loader section)
7. Sum check (Boot section)
8. Sum check (Program section)</td></tr></table></td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>50</td><td>01</td><td>Image lead edge adjustment</td><td>
Used to adjust the copy image position and the lead edge void amount on the copy paper. This adjustment is made by adjusting the image scan start position at 100% and the print start position (resist roller ON timing).
(Operating procedure)
When this simulation is executed, the current set value is displayed in two digits. (Center value: 50) When the copy mode select key is pressed, the setting mode and the display are switched. Enter the adjustment value with the 10-key and press the [START] key, and the entered value is set and a copy is made. (Adjustment range 1 ~ 99) When the [INTERRUPT] key is pressed, the entered value is saved and the machine goes into the sub code entry standby mode. When the [CA] key is pressed, the entered value is saved and the simulation is terminated. When the adjustment is made with the main cassette paper feed, all the adjustment values at the paper feed ports become the same.
(When the adjustment value is increased by 1, the position is shifted by about 0.1mm.)
<table>
<tr><th>Lighting lamp</th><th>Adjustment mode</th></tr>
<tr><td>AE, Main cassette lamp</td><td>Print start position (Main cassette paper feed)</td></tr>
<tr><td>AE, 2nd cassette lamp</td><td>★ Print start position (2nd cassette paper feed)</td></tr>
<tr><td>AE, Manual paper feed lamp</td><td>Print start position (Manual paper feed)</td></tr>
<tr><td>TEXT lamp</td><td>Image lead edge void amount</td></tr>
<tr><td>PHOTO lamp</td><td>Image scan start position</td></tr>
<tr><td>AE, TEXT, PHOTO lamp</td><td>Image rear edge void amount</td></tr>
</table>
* The mark, "★", indicates that it is supported only for the installed model, and it is skipped for non-installed models.
Note: When printing is made with manual paper feed, use A3 paper.
When the adjustment value of the print start position is increased by 1, the resist roller ON timing is delayed and the print image is reduced by 0.1mm. When the adjustment value of the image scan start position is increased by 1, the scan start position is shifted to the home position by 0.1mm.
[Adjustment procedure]
(1) Set the print start position (A) (AE ON), the lead edge void amount (B) (TEXT ON), and the scan start position (C) (PHOTO ON) to <1>, and make a 100% copy.
(2) Measure the image loss (R mm) of the scale. Set as C=10 x R (mm). (Example: Set to 40.)
When the value of C is increased by 10, the image loss is decreased by 1mm. (Default: 50)
(3) Measure the distance between the paper lead edge and the image print start position.
Set as A=10 x H (mm). (Example: Set to 50.)
When the value of A is increased by 10, the image lead edge is shifted toward the paper lead edge by 1mm. (Default: 50)
(4) Set the lead edge void area as B=50 (2.5mm). (Default: 50)
When the value of B is increased by 10, the void is increased by about 1mm.
(For 25 or less, however, the void amount is zero.)
(Example)


</td></tr>
<tr><td></td><td>06</td><td>Copy lead edge position adjustment (SPF/RSPF)</td><td>
Used to make the SPF copy lead edge position adjustment.
* When the adjustment value of the document scan start position is increased by 1, the scan start timing is advanced by 0.1mm. The print image is shifted to the reverse side of the scan start position.
(Adjustment range: 1 ~ 99, Default: 50)
<Adjustment items>
<table>
<tr><th>Lighting lamp</th><th>Item</th><th>Default</th><th>Variable range</th></tr>
<tr><td>AE</td><td>Front document scan position adjustment</td><td>50</td><td>1 ~ 99</td></tr>
<tr><td>TEXT</td><td>Back document scan position adjustment</td><td>50</td><td>1 ~ 99</td></tr>
<tr><td>PHOTO</td><td>Rear edge void adjustment (SPF)</td><td>50</td><td>1 ~ 99</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>50</td><td>10</td><td>Paper off-center adjustment</td><td>Used to adjust the positions of copy images on copy paper and the center offset position when scanning the document.
(Operating procedure)
When this simulation is executed, the current set value is displayed. Enter the adjustment value with the 10-key and press the [START] key, and the entered value is stored and a copy is made.
When the [INTERRUPT] key is pressed, the entered value is saved and the machine goes into the sub code entry standby mode. When the [CA] key is pressed, the entered value is saved and the simulation is terminated.
(When the set value is increased by 1, the position is shifted by 0.1mm.)
<Supplement>
When the adjustment value is increased, the image is shifted to the left. When the adjustment value is decreased, the image is shifted to the right.
<table><tr><th>Lighting lamp</th><th>Adjustment mode</th></tr><tr><td>AE, Main cassette lamps</td><td>Print center offset (Main cassette paper feed)</td></tr><tr><td>AE, 2nd cassette lamps</td><td>★ Print center offset (2nd cassette paper feed)</td></tr><tr><td>AE, 3rd cassette lamps</td><td>★ Print center offset (3rd cassette paper feed)</td></tr><tr><td>AE, 4th cassette lamps</td><td>★ Print center offset (4th cassette paper feed)</td></tr><tr><td>AE, Manual paper feed lamps</td><td>Print center offset (Manual paper feed)</td></tr><tr><td>TEXT, main cassette lamps</td><td>2nd print center offset (Main cassette paper feed)</td></tr></table>
★ Supported for the installed models only. Skipped for the models without installation.
Note: When the adjustment value is too great, the outside area of shading may be scanned, resulting in black streaks on copy paper.
When printing is made with manual paper feed, use A3 paper.</td></tr>
<tr><td></td><td>12</td><td>Document off-center adjustment</td><td>Used to make the document scan off-center adjustment.
(Adjustment range: 1 ~ 99, Default: 50)
* When the adjustment value is increased by 1, the print image is shifted by 0.1mm to the left when the scan start position is put on the upper side.
<Adjustment item>
<table><tr><th>Lighting lamp</th><th>Item</th><th>Default</th><th>Variable range</th></tr><tr><td>AE</td><td>Platen document scan</td><td>50</td><td>1 ~ 99</td></tr><tr><td>TEXT</td><td>SPF document front scan</td><td>50</td><td>1 ~ 99</td></tr><tr><td>PHOTO</td><td>RSPF document back scan</td><td>50</td><td>1 ~ 99</td></tr></table></td></tr>
<tr><td></td><td>18</td><td>Duplex copy memory reverse position adjustment</td><td>Used to adjust the memory reverse position in duplex copy. When this simulation is executed, the current correction value is displayed.
Enter a correction value with the 10-key and press the [START] key, and the entered value will be saved. (The correction value range is 1 ~ 99. The default is 50.)
<table><tr><th>Lighting lamp</th><th>Item</th></tr><tr><td>AE</td><td>OC memory reverse output position</td></tr><tr><td>TEXT</td><td>SPF memory reverse output position</td></tr></table>
Printing of the front surface in the S-D mode and printing of the even pages in the D-S mode are performed as reverse memory copying from the rear edge of the document.
When, therefore, the printing position adjustment of output image is required, perform the adjustment as follows:
The image direction in reverse memory copying is shown in the figure below. That is, when the document scan direction is as shown with the arrow, the output image is printed from the rear edge of scanning. If, therefore, the print edge section is shifted, set the reference chart with the reference position at the rear edge and use this simulation to change the set value in order to adjust the print lead edge position.
Since printing is started at the print start position and performed from the last, saved data in the memory to the head data, the lead edge position of an image is adjusted by changing the last data position saved in the memory.
 
</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td>50</td><td>19</td><td>Duplex copy rear edge void adjustment</td><td>Used to adjust the rear edge void amount in duplex copy.
(Operating procedure)
When this simulation is executed, the current set value is displayed in two digits.
(Adjustment range: 1 ~ 99, Center value: 50)
* When the set value is increased by 1, the void amount is increased by about 0.1mm.
Press the copy mode select key to select a suitable setting mode and a display. Enter the adjustment value with the 10-key and press the [START] key, and the entered value is saved and a copy is made. (Paper information is cleared after every copying).
When the [INTERRUPT] key is pressed, the entered value is saved and the machine goes into the sub code entry standby mode. When the [CA] key is pressed, the entered value is saved and the simulation is terminated.
<table><tr><th>Lighting lamp</th><th>Item</th></tr><tr><td>AE lamp</td><td>Paper rear edge void amount (First print surface)</td></tr><tr><td>TEXT lamp</td><td>Paper rear edge void amount (Second print surface)</td></tr><tr><td>PHOTO lamp</td><td>Print start position (duplex back surface)</td></tr></table></td></tr>
<tr><td>51</td><td>02</td><td>Resist amount adjustment</td><td>Used to adjust the contact pressure of the machine resist roller and the RSPF resist roller onto the paper.
(Operating procedure)
When this simulation is executed, the current set value is displayed.
When the exposure mode key is pressed, the following set items are changed sequentially. Enter an adjustment value with the 10-key and press the [START] key, and the entered value will be saved and a copy will be made. (Adjustment range: 1 ~ 99, Default: 50)
When the [CA] key is pressed, the entered value is saved and the simulation is terminated.
<table><tr><th>Lighting lamp</th><th>Adjustment mode</th></tr><tr><td>AE, Main cassette lamp</td><td>Main cassette paper feed</td></tr><tr><td>AE, 2nd cassette lamp</td><td>★ 2nd cassette paper feed</td></tr><tr><td>AE, 3rd cassette lamp</td><td>★ 3rd cassette paper feed</td></tr><tr><td>AE, 4th cassette lamp</td><td>★ 4th cassette paper feed</td></tr><tr><td>AE, Manual paper feed lamp</td><td>Manual paper feed</td></tr><tr><td>AE, TEXT, PHOTO lamps</td><td>★ RSPF document feed (Front surface)</td></tr><tr><td>AE, TEXT lamps</td><td>★ RSPF document feed (Back surface)</td></tr><tr><td>AE, PHOTO lamp</td><td>★ RSPF document (A5) paper feed (Back surface)</td></tr><tr><td>TEXT, PHOTO lamps</td><td>★ Duplex back surface</td></tr></table>★ Supported for the installed models only. Skipped for the models without installation.</td></tr>
<tr><td>53</td><td>08</td><td>SPF scanning position automatic adjustment</td><td>Place the black chart so that it covers both the SPF scan glass and the OC glass. Close the OC cover. When this simulation is executed, the current adjustment value is displayed as the initial display. When the [START] key is pressed, the mirror unit scans from the home position to the SPF scan position with the current adjustment value displayed, and the SPF glass cover edge is calculated from the difference between the SPF glass cover edge and the OC side document glass CCD output level.
* The default is 50, the adjustment range is 1 ~ 99, and the adjustment unit 1= about 0.127mm.
If the adjustment is completed normally, the adjusted value is displayed. If not, the jam lamp lights up with the current set value displayed. When the [START] key is pressed again with the jam lamp ON, the execution is repeated again. When the [Interrupt] key or the [CA] key is pressed during execution, "- -" is displayed and the operation is canceled. The mirror returns to its home position and the simulation mode is terminated. In the case when the [Interrupt key] is pressed, the machine goes into the sub code input standby mode. In the case when the [CA] key is pressed, all the lamps are turned off.
<table><tr><th>ON lamp</th><th>Display mode</th></tr><tr><td>AE lamp</td><td>SPF scan position automatic adjustment</td></tr><tr><td>TEXT lamp</td><td>SPF scan position manual adjustment</td></tr></table></td></tr>
<tr><td>61</td><td>03</td><td>HSYNC output check</td><td>When the [START] key is pressed, HSYNC is performed and the polygon motor is rotated for 30 sec. Every time when HSYNC is detected, the zoom lamp is lighted for 100msec.</td></tr>
</table>

<table>
<tr><th>Main code</th><th>Sub code</th><th>Contents</th><th>Details of operation</th></tr>
<tr><td rowspan="2">63</td><td>01</td><td>Shading check</td><td>The detection level of the white plate for shading is displayed.
(Operating procedure)
When the [START] key is pressed in the sub code input standby mode, the mirror base unit moves to the white plate for shading and the copy lamp is lighted. Until the light quantity of the copy lamp is stabilized, the sub code of "01" is displayed on the 7-seg display. When the light quantity of the copy lamp is stabilized, it is revised every second, and the level of one pixel at the CCD center where no correction is made is detected for 10 sec, and the detected level is displayed in hexadecimal on the 7-seg display. After completion of 10 sec detection, the machine goes into the sub code input standby mode.</td></tr>
<tr><td>07</td><td>SPF automatic correction</td><td>The SPF white correction start pixel position is automatically adjusted.
This is performed after replacement of the lens. Open the SPF unit and press the [START] key, and the position (which pixel) of the white sheet for SPF exposure correction in the SPF position is displayed on the 7-seg display.
If the value is 93 ~ 229, it is displayed on the 7-seg display and is written into the EEPROM.
If the value is 0 ~ 92 or 230 ~ 999, it is displayed on the 7-seg display but is not written into the EEPROM.
If the value is 1000 or above, "-------" is displayed on the 7-seg display and is not written into the EEPROM.
The pixel position -34 written into the EEPROM is considered as the SPF white correction start pixel of the machine.
When shi simulation is executed with the SPF unit closed, an error will occur.</td></tr>
<tr><td>64</td><td>01</td><td>Self print</td><td>The optical system status is ignored and a self print is made. Also when a print command is sent from the host, printing is performed.
(Operating procedure)
When this simulation is executed, warm-up is performed and the ready lamp is lighted.
(However, the scanner is invalid and no initial operation is made.)
Enter the code number with the 10-key, and select a cassette with the cassette select key and press the [START] key. The selected cassette start paper feed and printing is performed in the selected pattern.
* Only the tray lamp and the online lamp are lighted, and no other lamps are lighted.
Printing is made in 1 by 2 mode, where one line is printed and the following two liens are not printed, or in the grid pattern.
<table>
<tr><th>Code number</th><th>Pattern</th></tr>
<tr><td>0</td><td>1 by 2</td></tr>
<tr><td>1</td><td>Grid pattern</td></tr>
<tr><td>2</td><td>White paper</td></tr>
<tr><td>3</td><td>Black background</td></tr>
</table>
* Print data are made on A3 size. (A3 paper is preferable.)</td></tr>
</table>

[8] USER PROGRAMS

The user programs allow the parameters of certain functions to be set, changed, or canceled as desired.

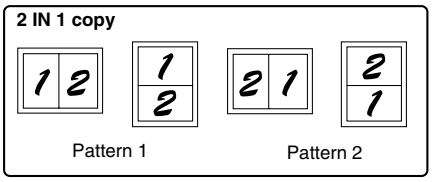
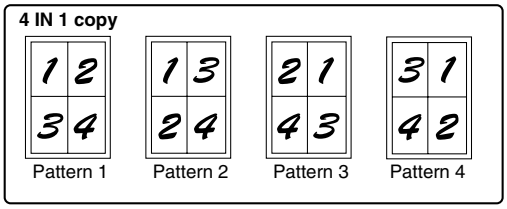
1. List of user programs

This copier has the following user programs.

Program name	Program No	Description	Default	Parameters
Auto clear time	1	"Auto clear time" automatically returns the copy settings to the initial settings when a certain period of time elapses after a copy is made. This program is used to select the period of time. "Auto clear time" can also be disabled.	60sec	1 (OFF) 2 (10sec) 3 (20sec) 4 (60sec) 5 (90sec) 6 (120sec)
Preheat mode	2	This function automatically switches the machine to a low power consumption state if the set duration of time elapses without the machine being used when the power is on. The POWER SAVE indicator lights up, however, the keys on the operation panel can be used. Normal operation automatically resumes when a key on the operation panel is pressed, an original is placed, a print job is received, or scanning is begun from a computer.	1min	1 (1min) 2 (5min) 3 (30min) 4 (60min) 5 (120min) 6 (240min)
Auto power shut-off timer	3	This function automatically switches the machine to a state that consumes even less power than preheat mode if the set duration of time elapses without the machine being used when the power is on. All lights except the POWER SAVE indicator and ON LINE indicator go off. To resume normal operation, press the [START] key (Ⓢ). Normal operation also resumes automatically when a print job is received or scanning is begun from a computer. While in auto power shut-off mode, no keys (except the [START] key (Ⓢ)) can be used.	5min	1 (5min) 2 (30min) 3 (60min) 4 (120min) 5 (240min)
Stream feeding mode*1	4	When copying using the SPF/RSPF, during the period of time that the SPF/RSPF indicator blinks after an original has been scanned (about 5 seconds), a subsequent original can be placed and automatically fed into the machine.	OFF	0 (OFF) 1 (ON)
Auto power shut-off setting	5	Use this setting to enable or disable auto power shut-off.	ON	0 (OFF) 1 (ON)
Border line for 2 IN 1 / 4 IN 1*2	6	When copying multiple originals onto a single sheet of paper (2 IN 1 / 4 IN 1 copy), this function can be used to print a solid or broken borderline around each original image.	OFF	1 (OFF) 2 (Solid line) 3 (Broken line)
Rotation copy*2	7	When the auto paper select function is enabled and there is no paper that is the same size as the original and loaded in the same orientation, this function will automatically select paper of the same size that is loaded in the opposite orientation, and rotate the image 90 degrees so that it is copied on the paper in the correct orientation. When the auto ratio select function is operating and the original and paper are loaded in opposite orientations, this function rotates the image so that it is copied on the paper in the correct orientation.	ON	0 (OFF) 1 (ON)
Auto paper select mode	8	This function automatically selects paper that is the same size as the original placed in the SPF/RSPF, or the same size as that selected with the [ORIGINAL SIZE ENTER] key (only for sizes 5-1/2" x 8-1/2", 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 14" and 11" x 14"). The function can be disabled.	ON	0 (OFF) 1 (ON)
Auto tray switching	9	If the paper runs out during printing and there is paper of the same size and orientation in another tray, this function automatically switches to that tray (excluding the bypass tray). The function can be disabled.	ON	0 (OFF) 1 (ON)
Auditing mode	10 to15	See "Enabling Audit Mode".	-	-
Erase width adjustment*2	16	Use this setting to set the width of erasure of shadows that appear around the edges and at the binding margin when a book or similar original is copied.	1/2" (10mm)	1 (0" (0mm)) 2 (1/4" (5mm)) 3 (1/2" (10mm)) 4 (3/4" (15mm)) 5 (1" (20mm))

*1 On models with a SPF/RSPF.

*2 On models with a dual function board.

Program name	Program No	Description	Default	Parameters
Layout in 2 IN 1 copy*2	17	Use this setting to select the layout pattern when two original pages are copied onto a single sheet of paper. 	Pattern 1	1 (Pattern 1) 2 (Pattern 2)
Layout in 4 IN 1 copy*2	18	Use this setting to select the layout pattern when four original pages are copied onto a single sheet of paper. 	Pattern 1	1 (Pattern 1) 2 (Pattern 2) 3 (Pattern 3) 4 (Pattern 4)
Offset of paper output tray	19	When enabled, this function offsets the position in the output tray of interrupt copy jobs and sets of copies during sort/group copy.	ON	0 (OFF) 1 (ON)
Image rotation in duplex copying*3	20	When a one-sided portrait original is placed in a horizontal orientation (8-1/2" x 11" or 8-1/2" x 14" size) for two-sided copying, the top and bottom of the images on the front and back of the paper will be opposite to each other,	OFF	0 (OFF) 1 (ON)
Location of the margin*2,*3	21	Use this setting to switch between the margin at the top edge and the margin at the left edge.	Left edge	1 (Left edge) 2 (Top edge)
Margin width*2	22	Use this setting to set the margin width.	1/2" (10mm)	1 (0" (0mm)) 2 (1/4" (5mm)) 3 (1/2" (10mm)) 4 (3/4" (15mm)) 5 (1" (20mm))
Resolution in Auto/Text mode	23	The copy resolution in auto and text mode is normally 300 dpi. If high-quality copies are preferred, use this setting to change the resolution to 600 dpi.	300dpi	1 (300dpi) 2 (600dpi)
Memory allocated to printer mode*2	24	Use this to change the proportion of IMC memory used for printer mode.	50%	1 (30%) 2 (40%) 3 (50%) 4 (60%) 5 (70%)
Key auto repeat	25	Use this setting to select whether or not holding down a key causes repeated input of the key. For keys that normally cause a set value to increase when held down (for example, holding down the [ZOOM] key (▽,△)), this program can be used to have the set value not change when the key is held down.	ON	0 (OFF) 1 (ON)
Key press time	26	Use this setting to select how long a key must be pressed for the input to be accepted. By selecting a longer time, you can prevent settings from being changed by the accidental pressing of a key.	Minimum (current response speed)	1 (Minimum (current response speed)) 2 (0.5sec) 3 (1.0sec) 4 (1.5sec) 5 (2.0sec)
Audible signals volume	27	This sets the volume of beep signals.	Low (current volume)	1 (Low (current volume)) 2 (High) 3 (OFF)
Base setting beep signal	28	Use this to sound a beep when a base setting is selected.	OFF	0 (OFF) 1 (ON)
Number of copies limit	29	Use this setting to select 99 or 999 for the maximum number of copies.	999 copies	1 (99 copies) 2 (999 copies)

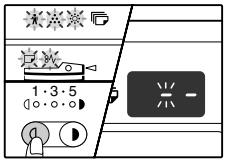
*2 On models with a dual function board.

*3 On models with automatic two-sided copying.

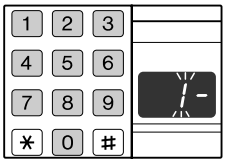
Program name	Program No	Description	Default	Parameters
Use close paper size	30	When this function is enabled, printing in printer mode will automatically continue using a different size of paper if the specified size of paper runs out in all trays. This feature does not function in copy mode.	OFF	0 (OFF) 1 (ON)
Default tray setting	31	Use this program to select a default tray. This tray is automatically selected each time the power is turned on or each time the machine reverts to the initial settings.	Tray 1	1 (Tray 1) 2 (Tray 2) 3 (Tray 3) 4 (Tray 4) 5 (Bypass tray)
Default exposure mode	32	Use this program to set "AUTO", "TEXT", or "PHOTO" as the default exposure mode.	AUTO	1 (AUTO) 2 (TEEXT) 3 (PHOTO)
USB2.0 mode switch	33	Used to switch USB2.0 mode between Full-Speed and High-Speed.	Full-Speed	1(Full-Speed) 2(High-Speed)

2. Setting the user programs

1) Hold down the [Light] key (◁) until the alarm indicators (, , , ,) blink.
   •"- -" appears in the display.

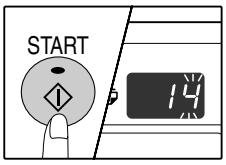


2) Enter the program number with the numeric keys.
   •See "USER PROGRAMS" for the program numbers.
   •The selected program number blinks.
   •To select "Auto clear timer", press the [1] key.

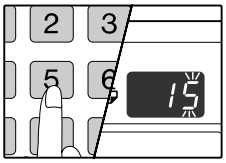


Note: If you enter the wrong number, press the [CLEAR] key (C) and then enter the correct number.

3) Press the [START] key (◇).
   •The selected program number stops blinking and lights steadily.
   •The currently selected setting code blinks in the 1st digit of the display.

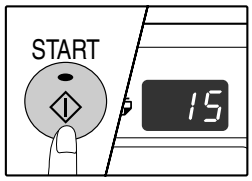


4) Enter the desired setting code by pressing a numeric key.
   •For the setting codes, see "USER PROGRAMS".
   •The selected setting code blinks.
   •To select 90 seconds, press the [5] key.



Note: If you enter the wrong number, press the [CLEAR] key (C) and return to step 2).

5) Press the [START] key (◇).
   •The selected setting code stops blinking and lights steadily.



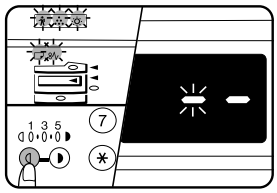
Note: To select a setting for another user program, press the [CLEAR] key (C) and then return o step 2).

6) Press the [Light] key (◁) to complete the settings.
   •The alarm indicators (, , , ,) go off and the display returns to the number of copies display.

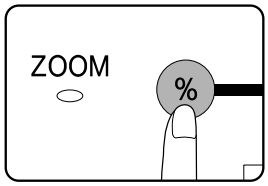
3. Toner cartridge life

To find out the approximate quantity of toner remaining, follow the procedure below.

1) Press and hold the light key for more than 5 seconds until all the alarm indicators (, , , , and) blink and "--" appears in the copy quantity display.



2) Press and hold the copy ratio display key for more than 5 seconds.
   •The approximate quantity of toner remaining will be indicated as a percent in the copy quantity display. ("100", "75", "50", "25", "10" or "LO" is displayed. When "LO" is displayed, the toner is down to less than 10%.)



3) Press the light key.
   •All the alarm indicators will go out.

[9]TROUBLE CODE LIST

1.Trouble code list

Main code	Sub code	Content
E1	00	IMC PWB communication trouble
	10	IMC PWB trouble
	11	IMC ASIC error
	13	IMC PWB flash ROM error
	16	IMC PWB DIMM memory read/write check error
	81	Interface error in communication with IMC PWB (Parity)
	82	Interface error in communication with IMC PWB (Overrun)
	84	Interface error in communication with IMC PWB (Framing)
E7	01	Duplex model memory error
	02	LSU trouble
	10	Shading trouble (Black correction)
	11	Shading trouble (White correction)
	12	Shading trouble
	16	Abnormal laser output
F2	04	Improper cartridge (destination error, life cycle error)
		Identification error
		Model error
		Type error
		Destination error
		Data abnormality
		Misc error
F5	02	Copy lamp lighting abnormality
H2	00	Thermistor open
H3	00	Heat roller high temperature detection
H4	00	Heat roller low temperature detection
L1	00	Scanner feed trouble
L3	00	Scanner return trouble
L4	01	Main motor lock detection
	11	Shifter motor trouble
L6	10	Polygon motor lock detection
L8	01	No full wave signal
U2	04	EEPROM read/write error (serial communication error)
	11	Counter check sum error (EEPROM)
	12	Adjustment value check sum error (EEPROM)
	40	CRUM chip communication error
--		Auditor NOT READY
CH ON	None	Side door open
CH Blink	None	Developing cartridge not installed

2.Details of trouble codes

Main code	Sub code		Details of trouble
E1	00	Content	IMC PWB communication trouble
		Detail	An abnormality occurs in communication between the MCU PWB and the IMC PWB.
		Cause	IMC PWB-MCU PWB harness abnormality MCU PWB connector disconnection IMC PWB ROM defect/data abnormality
		Check and remedy	Check connection of the connector and the harness between the IMC PWB and the MCU PWB. Check the ROM of the IMC PWB.
	10	Content	IMC PWB trouble
		Detail	An abnormality occurs in the IMC PWB.
		Cause	USB chip error/CODEC error on the IMC PWB
		Check and remedy	Replace the IMC PWB with a new one.
	11	Content	IMC ASIC error
		Detail	An abnormality occurs in the IMC PWB.
		Cause	Abnormality in ASIC on the IMC PWB
		Check and remedy	Replace the IMC PWB with a new one.
	13	Content	IMC PWB flash ROM error
		Detail	An abnormality occurs in the IMC flash ROM.
		Cause	IMC PWB abnormality
		Check and remedy	Replace the IMC PWB with a new one. If downloading of the program is abnormally terminated, it may cause an error. Download the program again to avoid this.
	16	Content	IMC PWB DIMM memory read/write check error
		Detail	An installation error occurs in the IMC expansion compression memory module. An error occurs during access to the IMC expansion compression memory.
		Cause	Improper installation of the IMC expansion memory module. IMC expansion memory module abnormality IMC expansion memory contact abnormality IMC PWB abnormality.
		Check and remedy	Check installation of the expansion memory module. Replace the expansion memory module. Replace the IMC PWB with a new one.
	81	Content	Interface error (Parity) in communication with the IMC PWB
		Detail	A parity error occurs in communication between the MCU PWB and the IMC PWB.
		Cause	IMC PWB-MCU PWB harness defect Improper connection of the MCU PWB connector IMC PWB ROM defect/data abnormality"
		Check and remedy	Check connection of the connector/harness between the IMC PWB and the MCU PWB. Check the ROM of the IMC PWB.

Main code	Sub code		Details of trouble
E1	82	Content	Interface error (Overrun) in communication with the IMC PWB
		Detail	An overrun error occurs in communication between the MCU PWB and the IMC PWB.
		Cause	IMC PWB-MCU PWB harness defect Improper connection of the MCU PWB connector IMC PWB ROM defect/data abnormality.
		Check and remedy	Check connection of the connector/harness between the IMC PWB and the MCU PWB. Check the ROM of the IMC PWB.
	84	Content	Interface error (Framing) in communication with the IMC PWB
		Detail	A framing error occurs in communication between the MCU PWB and the IMC PWB.
		Cause	IMC PWB-MCU PWB harness defect Improper connection of the MCU PWB connector IMC PWB ROM defect/data abnormality.
		Check and remedy	Check connection of the connector/harness between the IMC PWB and the MCU PWB. Check the ROM of the IMC PWB.
E7	01	Content	Duplex model memory error
		Detail	The memory capacity for the duplex model machine is improper. Insufficient memory capacity
		Cause	The memory capacity of the MCU PWB is improper.
		Check and remedy	Use SIM 26-39 to check that the memory capacity is 32MB. If it is not 32MB, replace the MCU PWB with a suitable one.
	02	Content	LSU trouble
		Detail	The BD signal from the LSU cannot be detected in a certain cycle. (Always OFF or always ON)
		Cause	LSU connector or LSU harness defect or disconnection Polygon motor rotation abnormality Laser beams are not generated. MCU PWB abnormality.
		Check and remedy	Check connection of the LSU connector. Execute SIM 61-03 to check the LSU operations. Check that the polygon motor rotates normally. Check that the laser emitting diode generates laser beams. Replace the LSU unit. Replace the MCU PWB.
	10	Content	Shading trouble (Black correction)
		Detail	The CCD black scan level is abnormal when the shading.
		Cause	Improper connection of the CCD unit flat cable CCD unit abnormality MCU PWB abnormality.
		Check and remedy	Check connection of the CCD unit flat cable. Check the CCD unit."

Main code	Sub code		Details of trouble
E7	11	Content	Shading trouble (White correction)
		Detail	The CCD white scan level is abnormal when the shading.
		Cause	Improper connection of the CCD unit flat cable Dirt on the mirror, the lens, and the reference white plate Copy lamp lighting abnormality CCD unit abnormality MCU PWB abnormality (When occurred in the SPF scan position.) Improper installation of the mirror unit
		Check and remedy	Clean the mirror, lens, and the reference white plate. Check the light quantity and lighting status of the copy lamp (SIM 05-03). Check the MCU PWB.
	12	Content	Shading trouble
		Detail	White correction is not completed in the specified number of operations.
		Cause	CCD unit flat cable connection failure. Dirt on mirrors, lenses, and the reference white plate. Copy lamp lighting abnormality CCD unit abnormality MCU PWB abnormality
		Check and remedy	Clean mirrors, lenses, and the reference white plate. Check the copy lamp light quantity (SIM 05-03) and lighting. Check the CCD unit. Check the MCU PWB.
	16	Content	Abnormal laser output
		Detail	When the laser output is stopped, HSYNC is detected.
		Cause	Laser abnormality MCU PWB abnormality.
		Check and remedy	Check the laser emitting diode operation. Replace the MCU PWB. "
F2	04	Content	Improper cartridge (Destination error, life cycle error)
		Detail	The destination of the machine differs from that of the CRUM. The life cycle information is other than "Not used (FFh)."
		Cause	CRUM chip defect Improper developing unit
		Check and remedy	Replace the CRUM chip. Replace the developing unit.
		Identification error	The trade mark code of the CRUM differs. The company code of the CRUM differs.
		Model error	The boot program model code does not coincide with the CRUM model code.
		Type error	When the CRUM type is other than genuine/ conversion/production rotation.
		Destination error	The machine destination differs from the CRUM destination.
		Data abnormality	When an error value is included in the initial check information. When the max. toner supply time is 00. When the print hard stop is 00.
		Misc error	When the Misc information is other than "Not used (FFh)."

Main code	Sub code		Details of trouble
F5	02	Content	Copy lamp lighting abnormality
		Detail	The copy lamp does not turn on.
		Cause	Copy lamp abnormality Copy lamp harness abnormality CCD PWB harness abnormality.
		Check and remedy	Use SIM 5-3 to check the copy lamp operations. **When the copy lamp lights up.** Check the harness and the connector between the CCD unit and the MCU PWB. **When the copy lamp does not light up.** Check the harness and the connector between the copy lamp unit and the MCU PWB. Replace the copy lamp unit. Replace the MCU PWB. "
H2	00	Content	Thermistor open
		Detail	The thermistor is open. The fusing unit is not installed.
		Cause	Thermistor abnormality Control PWB abnormality Fusing section connector disconnection The fusing unit is not installed.
		Check and remedy	Check the harness and the connector between the thermistor and the PWB. Use SIM 14 to clear the self diagnostic display.
H3	00	Content	Heat roller high temperature detection
		Detail	The fusing temperature exceeds 240C°.
		Cause	Thermistor abnormality Control PWB abnormality Fusing section connector disconnection.
		Check and remedy	Use SIM 5-02 to check the heater lamp blinking operation. **When the lamp blinks normally.** Check the thermistor and its harness. Check the thermistor input circuit on the control PWB. **When the lamp keeps ON.** Check the power PWB and the lamp control circuit on the MCU PWB. Use SIM 14 to clear the self diagnostic display.

Main code	Sub code		Details of trouble
H4	00	Content	Heat roller low temperature detection
		Detail	When the fusing temperature is lower than 150C° after 55sec from the start of warming up. When the warming up complete temperature is not reached in 30sec from reaching 150C°. When the fusing temperature is lower than 100C° after 20sec from ready start. When the fusing temperature is lower than 145C° when printing."
		Cause	Thermistor abnormality Heater lamp abnormality Thermostat abnormality Control PWB abnormality
		Check and remedy	Use SIM 5-02 to check the heater lamp blinking operation. **When the lamp blinks normally.** Check the thermistor and its harness. Check the thermistor input circuit on the control PWB. **When the lamp does not light up.** Check for disconnection of the heater lamp and the thermostat. Check the interlock switch. Check the power PWB and the lamp control circuit on the MCU PWB. Use SIM 14 to clear the self diagnostic display.
L1	00	Content	Scanner feed trouble
		Detail	The scanner does not complete feeding in the specified time.
		Cause	Mirror unit abnormality The scanner wire is disconnected. The origin detection sensor abnormality Mirror motor harness abnormality
		Check and remedy	Use SIM 1-1 to check the mirror reciprocating operations. **When the mirror does not feed.** Check for disconnection of the scanner wire. Check the harness and the connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. **When the mirror does feed.** Use SIM 1-2 to check the mirror home position sensor."
L3	00	Content	Scanner return trouble
		Detail	The scanner does not complete returning in the specified time. The mirror is not in the home position when OC copying is started with the mirror standby in the home position.
		Cause	Mirror unit abnormality Scanner wire disconnection Origin detection sensor abnormality Mirror motor harness abnormality
		Check and remedy	Use SIM 1-1 to check the mirror reciprocating operations. **When the mirror does not return.** Check for disconnection of the scanner wire. Check the harness and the connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. **When the mirror does feed.** Use SIM 1-2 to check the mirror home position sensor.

Main code	Sub code		Details of trouble
L4	01	Content	Main motor lock detection
		Detail	The main motor does not rotate. The motor lock signal is detected for 1sec or more after rotation of the main motor. The motor lock signal is detected for 1sec during rotation of the main motor.
		Cause	Main motor unit abnormality Improper connection or disconnection the main motor and the harness. MCU PWB abnormality
		Check and remedy	Use SIM 25-01 to check the main motor operations. Check connection of the main motor harness/ connector. Replace the main motor. Replace the MCU PWB.
	11	Content	Shifter motor trouble
		Detail	The shifter home position detection signal is not detected when initializing the shifter.
		Cause	Shifter motor abnormality, improper connection or disconnection of the harness, shifter home position sensor abnormality
		Check and remedy	Use SIM 03-11 to check the shifter motor operations. Check connection of the harness/connector of the shifter motor. Replace the shifter motor. Replace the MCU PWB.
L6	10	Content	Polygon motor lock detection
		Detail	The polygon motor does not rotate. The motor lock signal is detected for 6sec after rotation of the polygon motor. The motor lock signal is detected for 1sec during rotation of the polygon motor.
		Cause	Polygon motor unit abnormality Improper connection or disconnection of the polygon motor and the harness. MCU PWB abnormality
		Check and remedy	Use SIM 61-1 to check the polygon motor operations. Check connection of the polygon motor harness/connector. Replace the polygon motor.. Replace the MCU PWB.
L8	01	Content	No full wave signal
		Detail	The zero cross signal is not detected.
		Cause	Power unit abnormality MCU PWB abnormality
		Check and remedy	Check connection of the harness and connectors. Replace the MCU PWB. Replace the power unit.
U2	04	Content	EEPROM read/write error (Serial communication error)
		Detail	EEPROM access process error
		Cause	EEPROM abnormality
		Check and remedy	Check that the EEPROM is properly set. Use SIM 16 to cancel the trouble. Replace the MCU PWB.

Main code	Sub code		Details of trouble
U2	11	Content	Counter check sum error (EEPROM)
		Detail	Check sum error of the counter area in the EEPROM
		Cause	EEPROM abnormality
		Check and remedy	Check that the EEPROM is properly set. Use SIM 16 to cancel the trouble. Replace the MCU PWB.
	12	Content	Adjustment value check sum error (EEPROM)
		Detail	Check sum error of the adjustment value area in the EEPROM
		Cause	EEPROM abnormality
		Check and remedy	Check that the EEPROM is properly set. Use SIM 16 to cancel the trouble. Replace the MCU PWB.
	40	Content	CRUM chip communication error
		Detail	An error occurs during communication between the MCU and the CRUM chip.
		Cause	CRUM chip abnormality Developing unit disconnection MCU PWB abnormality
		Check and remedy	Replace the chip. Check installation of the developing unit. Use SIM 16 to cancel the trouble. Replace the MCU PWB.
--		Content	Auditor NOT READY
		Detail	
		Cause	
		Check and remedy	
CH ON	None	Content	Side door open
		Detail	The side door is open.
		Cause	Side door sensor abnormality MCU PWB abnormality
		Check and remedy	Check that all the side doors are closed. Replace the MCU PWB.
CH Blink	None	Content	Developing cartridge not installed
		Detail	The developing cartridge is not installed. Communication with the CRUM cannot be made in initial check of the CRUM.
		Cause	Developing unit disconnection MCU PWB abnormality CRUM chip abnormality
		Check and remedy	Check installation of the developing unit. Replace the MCU PWB.

[10] MAINTENANCE

1. Maintenance table

X:Check(Clean, adjust, or replace when required.) O:Clean ▲:Replace △:Adjust ☆:Lubricate

Unit name	Part name		When calling	50K	100K	150K
Drum peripheral	OPC drum		-	▲	▲	▲
	Cleaning blade		-	▲	▲	▲
	Side seal F/R		X	X	X	X
	MC unit		X	▲	▲	▲
	(MC charging electrode)		-	(▲)	(▲)	(▲)
	(MC grid)		-	(▲)	(▲)	(▲)
	(MC case)		-	(▲)	(▲)	(▲)
	Transfer wire		O	O	O	O
	Transfer paper guide		O	O	O	O
	MC guide sheet (Cleaning blade attached)		-	▲	▲	▲
	Drum fixing plate B		X	▲	▲	▲
	Process frame unit		X	X	X	▲
	Discharge holder		O	O	O	O
	Separation pawl Star ring x 2 pcs } Only for Viet Nam		X	▲	▲	▲
Developing section	Developer		-	▲	▲	▲
	DV seal		-	X	X	▲
	DV under seal		-	-	-	▲
	DV side seal		-	X	X	▲
	Side Mylar		-	-	-	▲
Optical section	Lamp unit	Reflector	O	O	O	O
		Mirror	O	O	O	O
	No.2/3 mirror unit	Mirror	O	O	O	O
		Pulley	X	X	X	X
	CCD peripheral	Lens	O	O	O	O
	Glass	Table glass	O	O	O	O
		White Plate	O	O	O	O
	Other	Drive wire	X	X	X	X
		Rail	X ☆	X ☆	X ☆	X ☆
		Document cover	O	O	O	O
		Document size sensor	O	O	O	O
LSU		Dust-proof glass	O	O	O	O
Paper feed section	Multi paper feed section	Take-up roller(manual / SPF)	O	O	O	O
		Paper feed roller	O	O	O	O
		Spring clutch	O ☆	O ☆	O ☆	O ☆
Paper transport section		PS roller	O	O	O	O
		Transport (paper exit) rollers	O	O	O	O
		Spring clutch	O ☆	O ☆	O ☆	O ☆
Fusing section		Upper heat roller	O	O	O	▲
		Pressure roller	O	O	O	O
		Pressure roller bearing	X	X	X	O ☆
		Upper separation pawl	X	X	X	O
		Lower separation pawl	X	X	X	O
Drive section		Gears	X ☆	X ☆	X ☆	X ☆
		Belts	X	X	X	O
Paper exit section		Ozone filter*1	X	X	X	X*1

*1:Recommendable replacement time:50K(Letter,5%print)

2. Maintenance display system

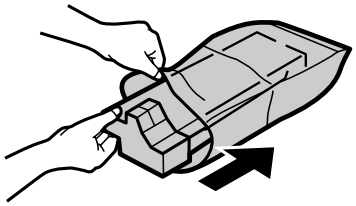
Toner	Life,	16K	
	Remaining quantity check *1	a. Press and hold the density adjustment LIGHT key for more than 5 sec, and the machine will enter the user program mode. b. Press and hold the "%" key for more than 5 sec, and the remaining quantity will be displayed on the copy quantity display in one of the following levels: (Remaining quantity display levels: 100%, 75%, 50%, 25%, 10%, LO) c. Press the density adjustment LIGHT key to cancel.	
	Remaining quantity	NEAR EMPTY About 10%	EMPTY
	LED	ON	Flash
	Machine	Operation allowed	Stop
Developer	Life	50K	
	LED	ON at 50K of the developer count	
	Machine	Selection is available between Not Stop and Stop by Service Simulation (SIM 26-37) Setup. (If Stop is selected, the LED will flash and stop at 50K.) * Default: Not Stop * Clear: SIM 42-1	
Maintenance	LED	Selection is available among 50K, 25K, 10K, 7.5K, 5K, and free (no lighting) with SIM 21-1. * Default: 50K * Clear: SIM 20-1	
	Machine	Not stop	

*1: Installation of a new toner cartridge allows to display the remaining quantity.

3. Note for replacement of consumable parts

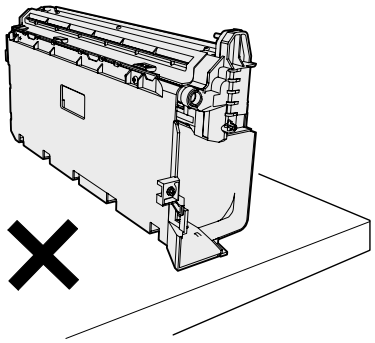
A. Toner cartridge

When a waste toner cartridge is removed from the machine, it must be put in a polyethylene bag to avoid scattering of toner.

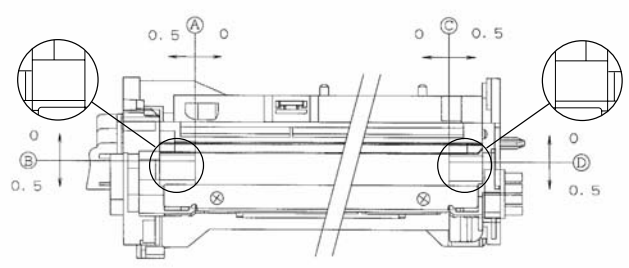


B. DV cartridge

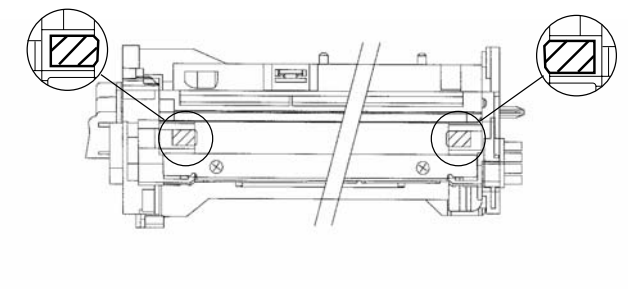
Do not shake or put up the developer cartridge. Otherwise developer may scatter.



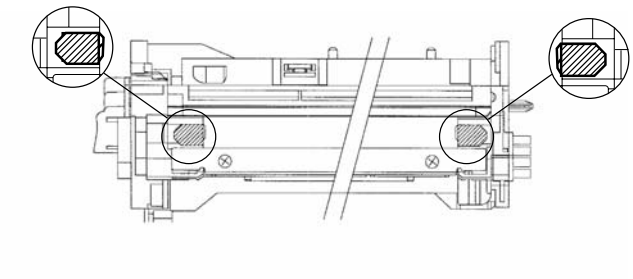
C. DV seal attachment procedure



1) When attaching the DV side Mylar, check the position shown in the figure below and attach it properly.



2) When attaching the DV side sheet, check the position shown in the figure below and attach it properly.
(First of all, attach the DV side Mylar.)



* Be sure to attach the DV side sheet so that the notch is on the outside.

[11]DISASSEMBLY AND ASSEMBLY

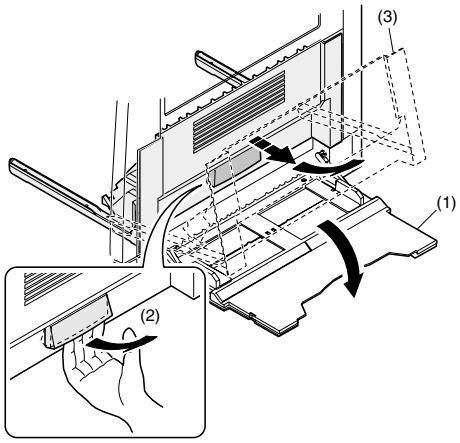
WARNING Before performing the disassembly procedure, be sure to remove the power cord to prevent against an electric shock.

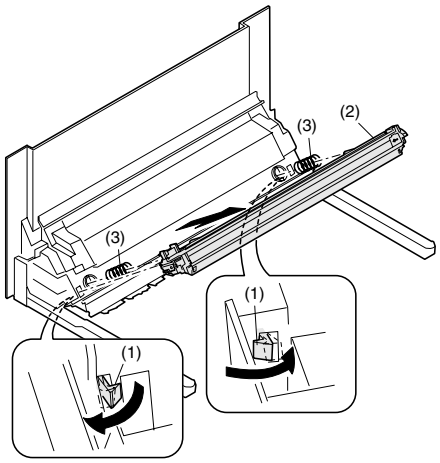
No.	Item
1	High voltage section/Duplex transport section
2	Optical section
3	Fusing section
4	Paper exit section
5	MCU
6	Optical frame unit
7	LSU
8	Tray paper feed section/Paper transport section
9	Manual multi paper feed section
10	Power section
11	Developing section
12	Process section
13	Others

1. High voltage section/Duplex transport section

No.	Content
A	Transfer charger unit
B	Charger wire
C	Duplex transport section

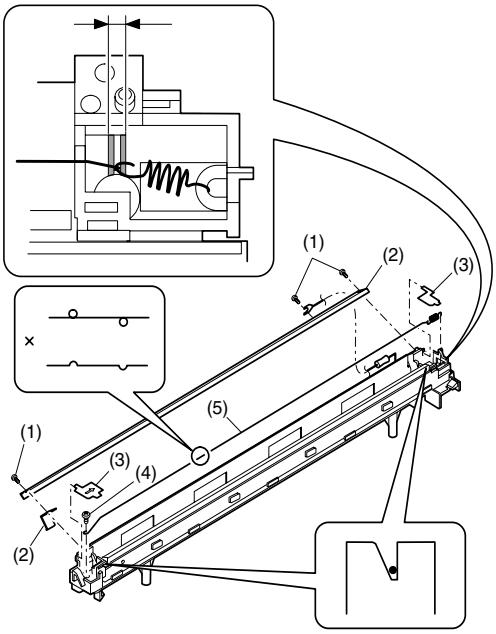
A.Transfer charger unit



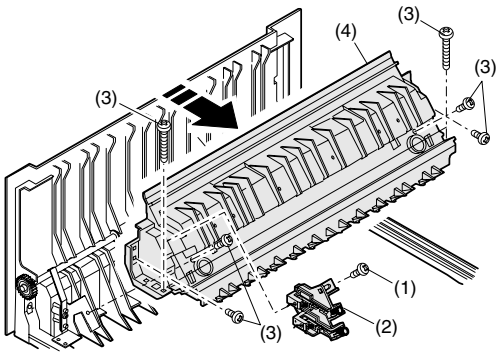


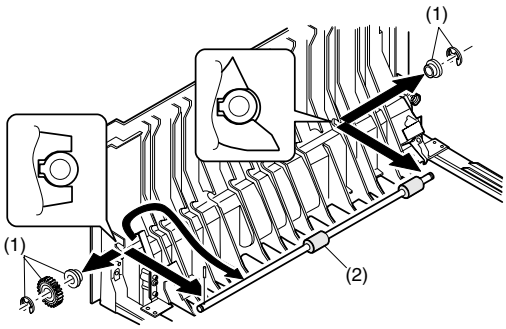
B.Charger wire

Installation: The spring tip must be between two reference ribs.
- •The charger wire must be free from twist or bending.
- •Be sure to put the charger wire in the V groove.



C.Duplex transport section



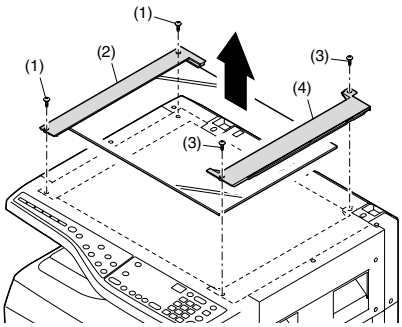


2.Optical section

Note: When disassembling or assembling the optical unit, be careful not to touch the mirror and the reflector.

No.	Content
A	Table glass
B	Copy lamp unit
C	Inverter PWB for copy lamp
D	Copy lamp
E	Lens unit
F	Wire

A.Table glass

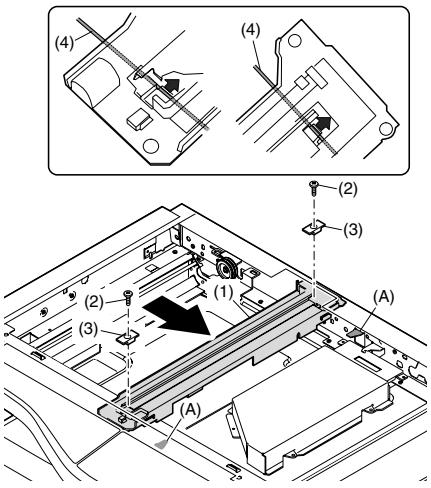


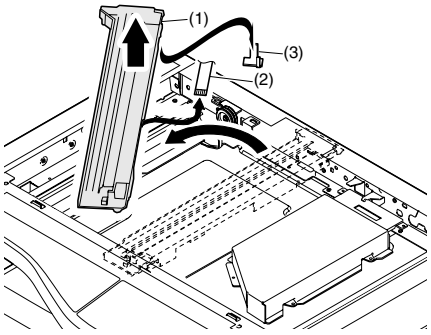
B.Copy lamp unit

Disassembly: Be sure to put No. 2/3 mirror unit to the positioning plate (A).

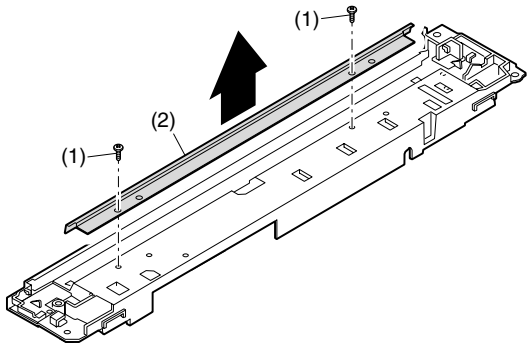
Assembly: Put the notched surface of wire holder (3) downward, tighten temporarily, and install.

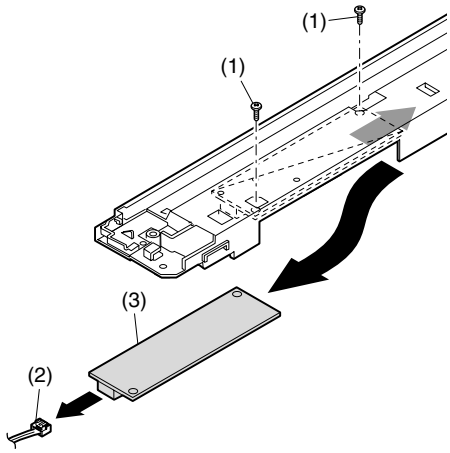
Adjustment: Main scanning direction distortion balance adjustment



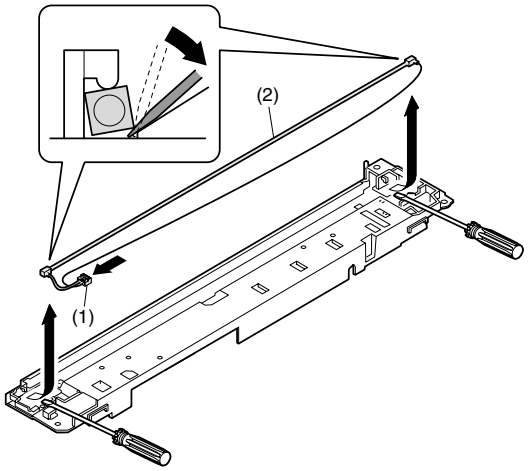


C.Inverter PWB for copy lamp





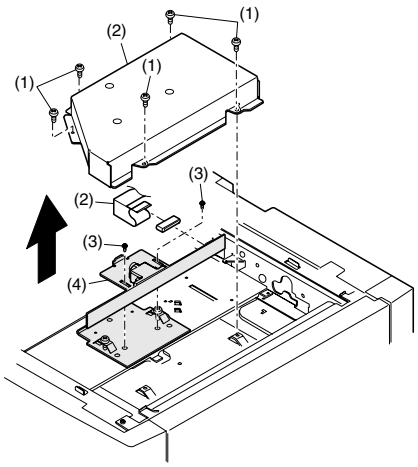
D.Copy lamp



E.Lens unit

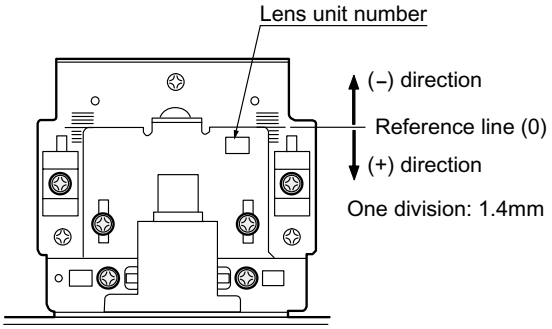
Note: Do not remove screws which are not indicated in the figure. If the height of the base plate is changed, it cannot be adjusted in the market.

Note: The CCD/lens unit is factory-adjusted before shipping.
Since these adjustments cannot be performed in the market.
Never touch the screws other than screw 2) of the CCD/lens unit.



Lens unit attachment

<1>Attach the lens unit so that the lens unit number on the lens adjustment plate is aligned with the scribe line on the base plate.



	CCD adjustment value
+4 scales	5.0~
+3 scales	3.6~4.9
+2 scales	2.2~3.5
+1 scale	0.8~2.1
Reference	-0.6~0.7
-1 scale	-2.0~ -0.7
-2 scales	-3.4~ -2.1
-3 scales	-4.8~ -3.5
-4 scales	~ -4.9

<2>Make a sample copy at the above position, and measure the magnification ratio.

<3>Change the installing position in the horizontal direction to adjust the magnification ratio.

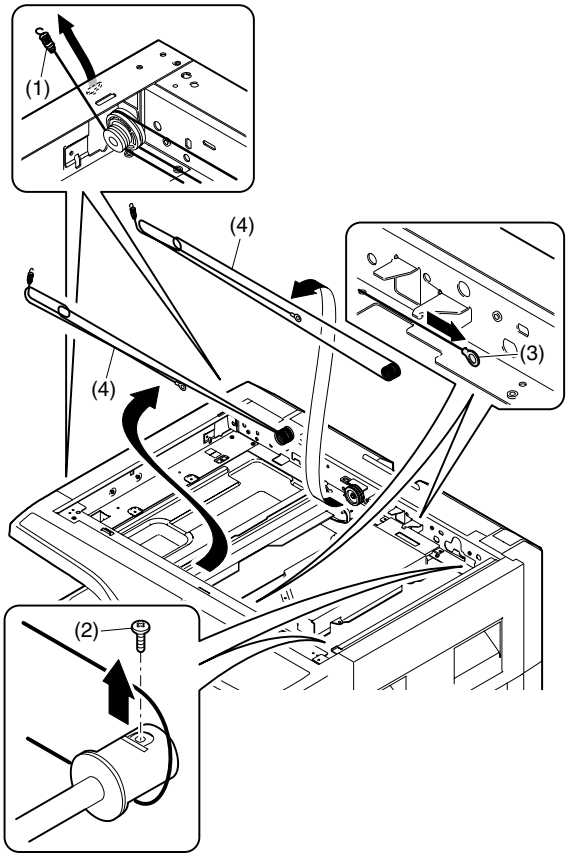
•When the copy image is longer than the original, shift to the positive (+) direction.

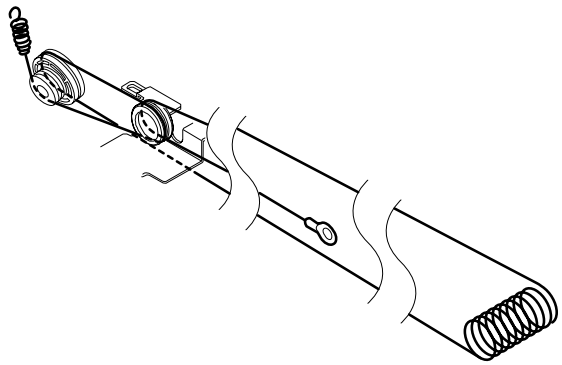
•When the copy image is shorter than the original, shift to the negative (-) direction.

* 1 scale of the scribed line corresponds to 0.34% of magnification ratio.

* If this adjustment is not satisfactory, make a fine adjustment with SIM 48-2.

F.Wire

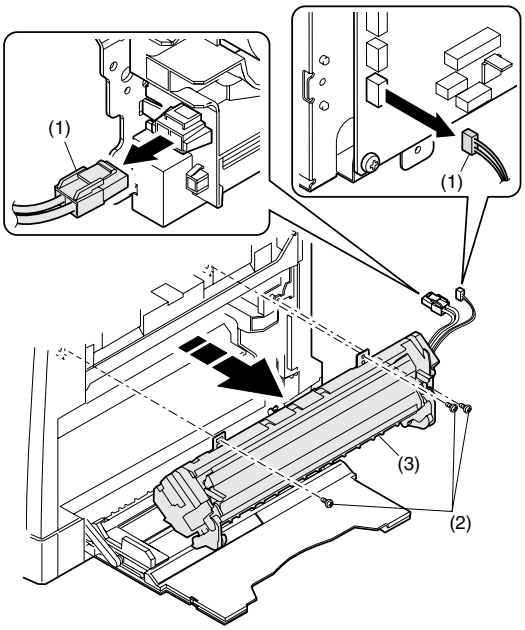




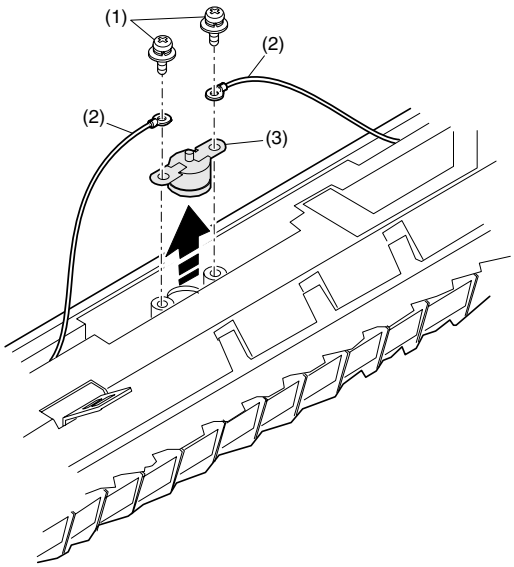
3.Fusing section

No.	Contents
A	Fusing unit
B	Thermostat
C	Thermistor
D	Heater lamp
E	Upper heat roller
F	Separation pawl
G	Lower heat roller
H	Separation pawl

A.Fusing unit removal

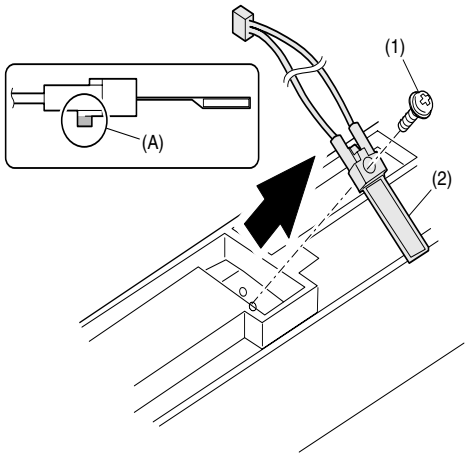


B.Thermostat



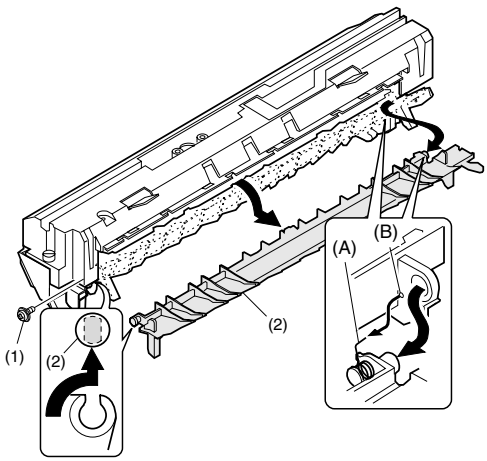
C.Thermistor

Installation: When installing the thermistor, be sure to face the installing projection (A) toward the installing surface.
Check that the thermistor is in contact with the upper heat roller.

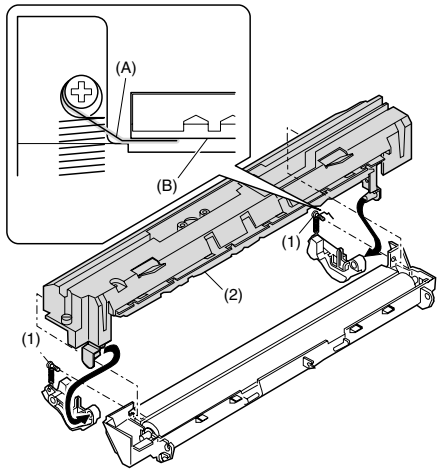


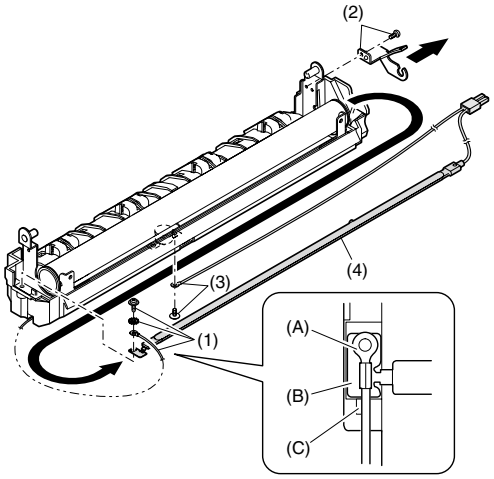
D.Heater lamp

Assembly: Insert the spring (A) into the hole (B) in the fusing frame.



Assembly: Put the paper guide earth spring (A) under the paper guide (B) before fusing.

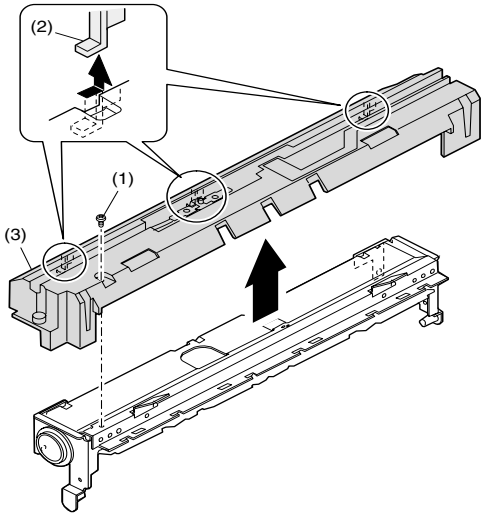


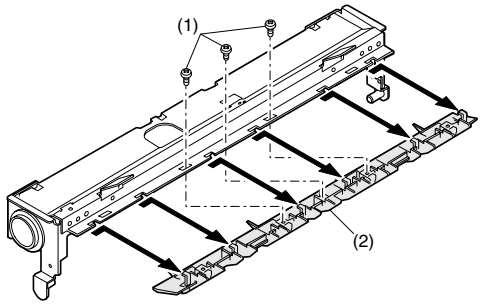


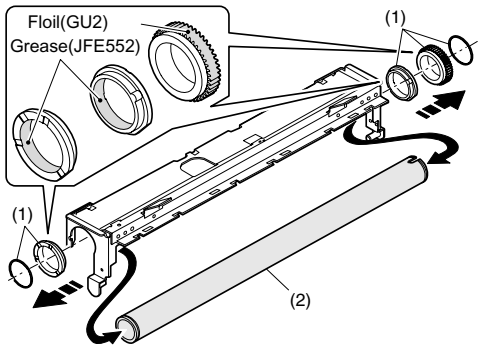
Assembly: Put the fusing harness (A) on the heater lamp (B) as shown in the figure and fix them together.<R>Place the fusing harness inside the rib (C).

E.Upper heat roller

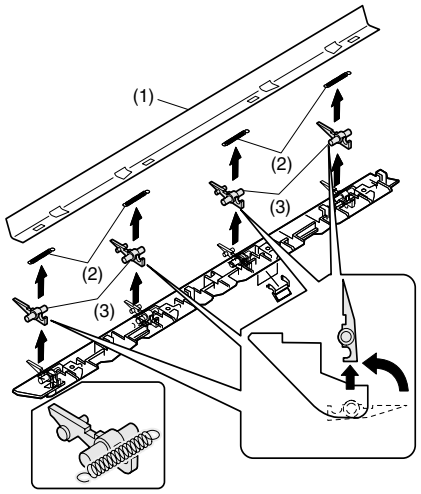
Disassembly: There are three pawls on the fusing cover. Remove the screws and slide the fusing cover to the right to remove. The heater lamp is fixed on the fusing cover with a screw. Slide the fusing cover to the front and remove the screw, then remove the heater lamp.

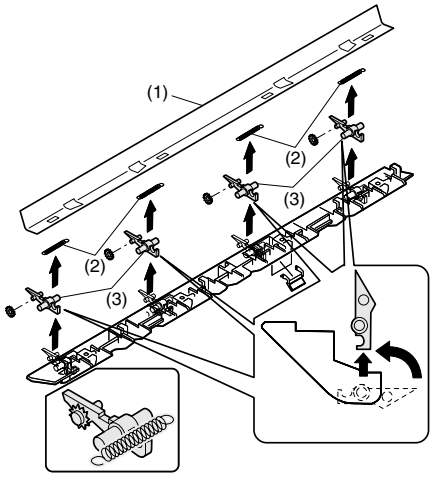






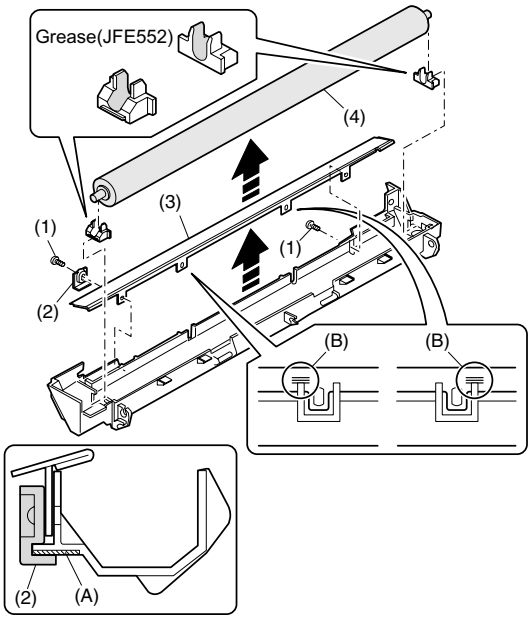
F.Separation pawl



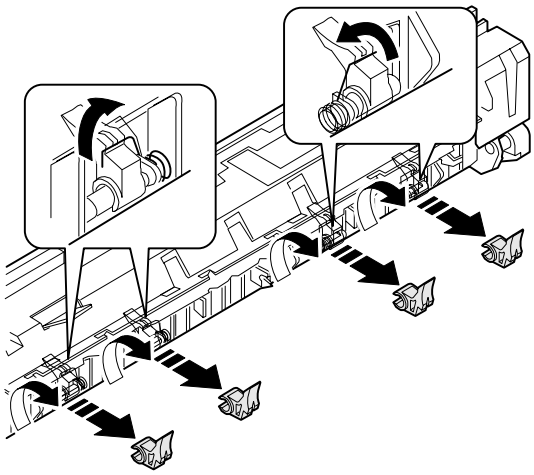


G.Lower heat roller

Assembly: When installing the paper guide (3) before fusing, fix the paper guide fixing plate with screws temporarily so that the paper guide fixing plate (2) is in contact with the frame bottom under fusing (A). Set the paper guide (3) before fusing to the bottom line of the positioning reference (B), and tighten the screw firmly.



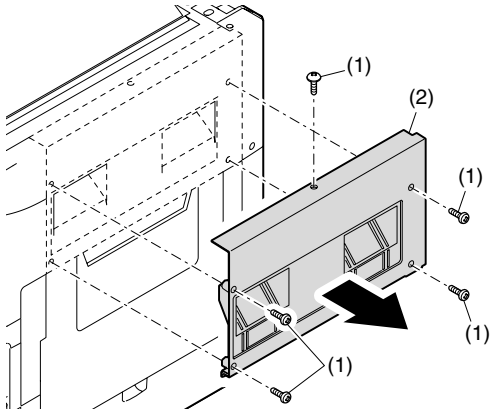
H.Separation pawl

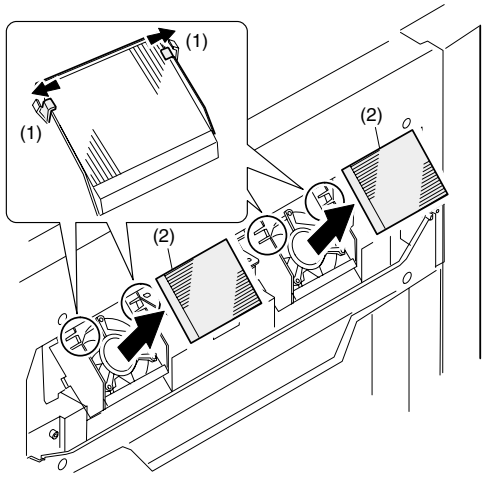


4.Paper exit section

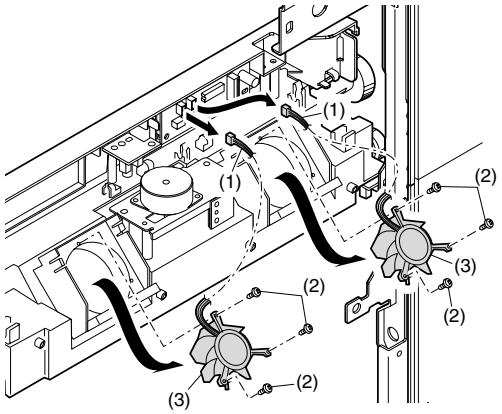
No.	Content
A	Ozone filter
B	Cooling fan
C	Paper exit unit
D	Paper exit sensor / duplex sensor
E	Transport roller
F	Paper exit roller
G	Paper exit interface P.W.B.

A.Ozone filter

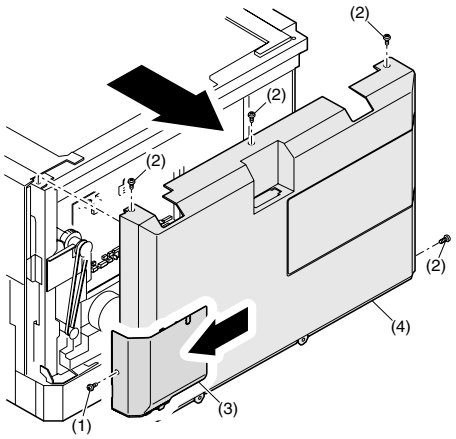


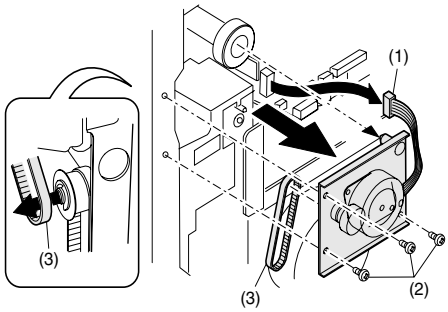


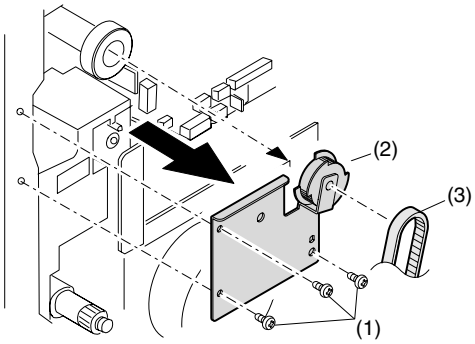
B.Cooling fan

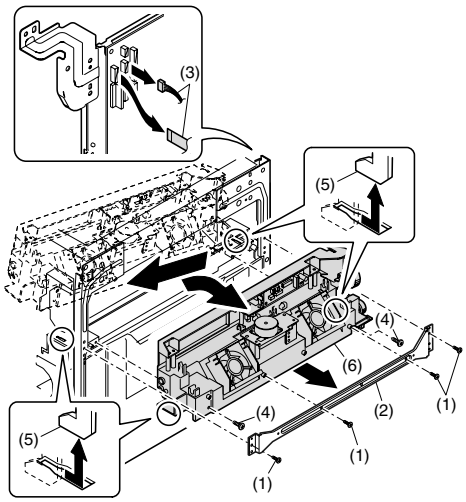


C.Paper exit unit





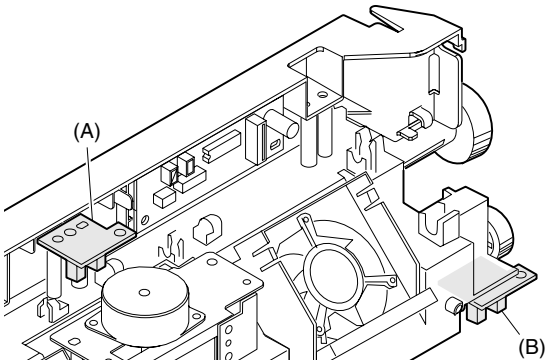




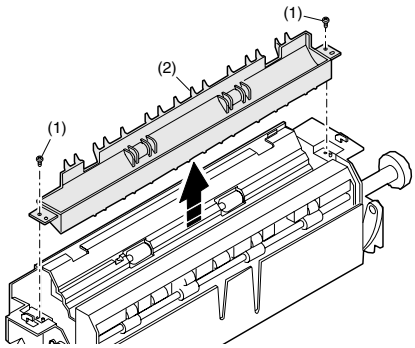
D.Paper exit sensor / duplex sensor

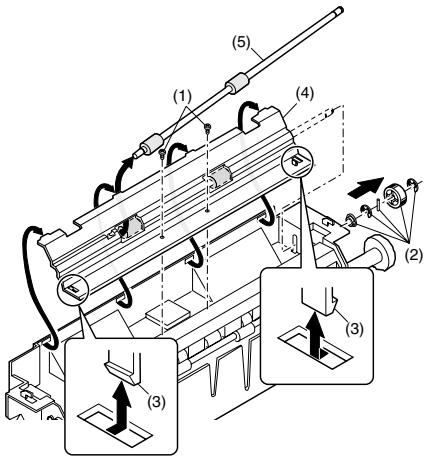
(A)Exit sensor

(B)Duplex sensor



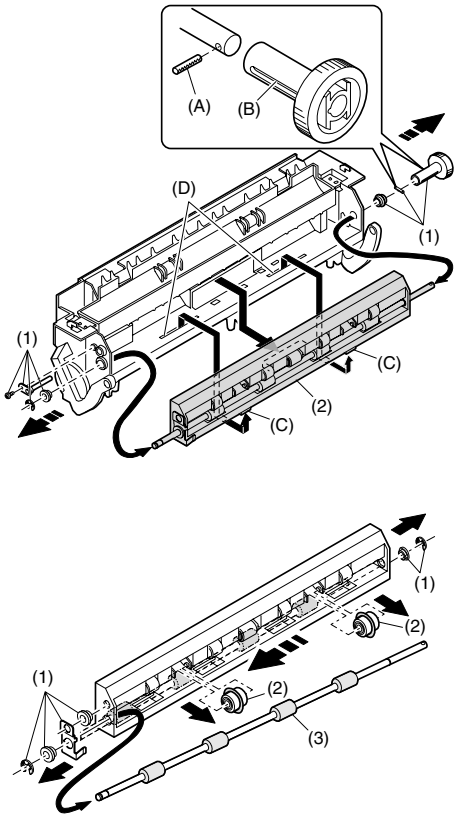
E.Transport roller



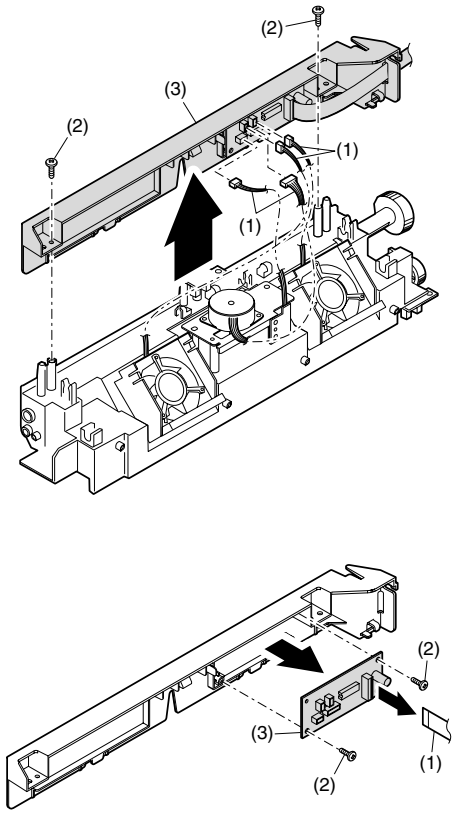


F.Paper exit roller

Assembly: Insert the spring pin so that the waveform (A) of the spring pin faces in the longitudinal direction of the paper exit drive gear long hole (B).<R>Be sure to insert two ribs (C) into the groove (D).



G.Paper exit interface P.W.B.

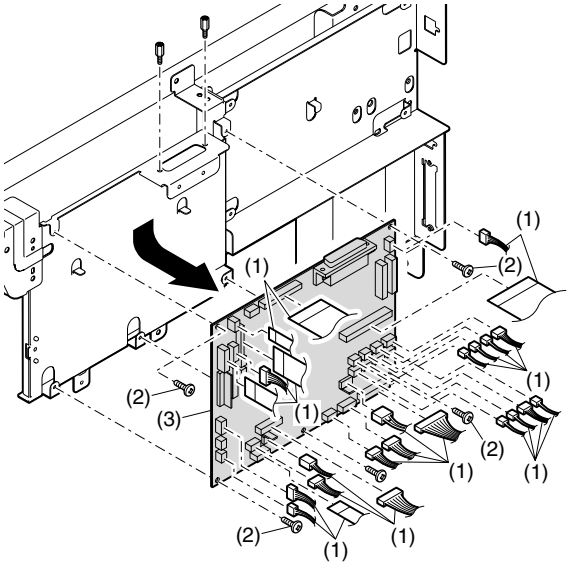


5.MCU

No.	Content
A	MCU disassembly

A.MCU disassembly

Note: When replacing the MCU PWB, be sure to replace the EEPROM of the MCU PWB to be replaced.



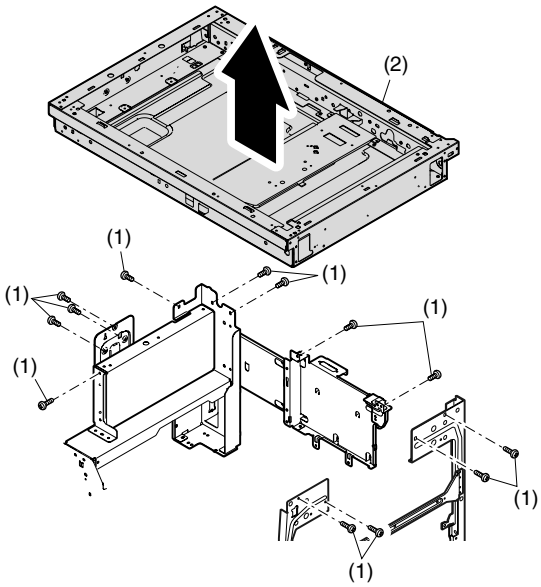
Note: When replacing the MCU PWB, be sure to restore the original jumper conditions.

6.Optical frame unit

No.	Content
A	Optical frame unit

A.Optical frame unit

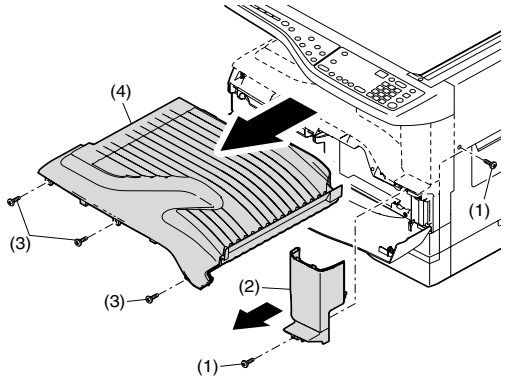
Installation: Install the optical unit in the sequence shown above.

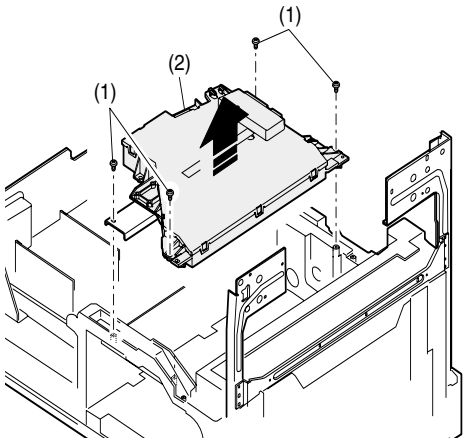


7.LSU

No.	Content
A	LSU unit

A.LSU unit





Note: Do not disassemble the LSU.

Note: When replacing the LSU, be careful not to touch the dust-shield glass.

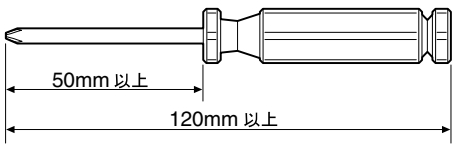
Adjustment:

•Image lead edge position adjustment

•Image left edge position adjustment

•Paper off-center adjustment

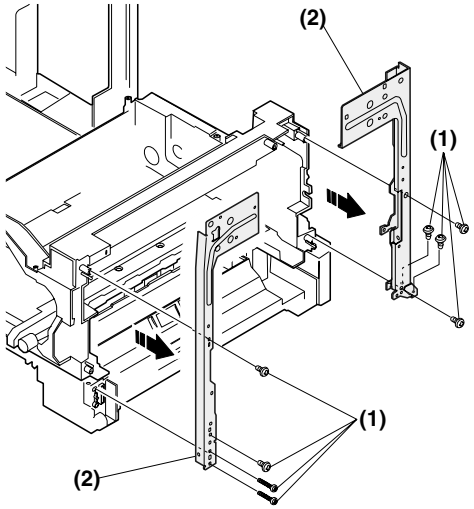
•Size of the screwdriver for removing the LSU



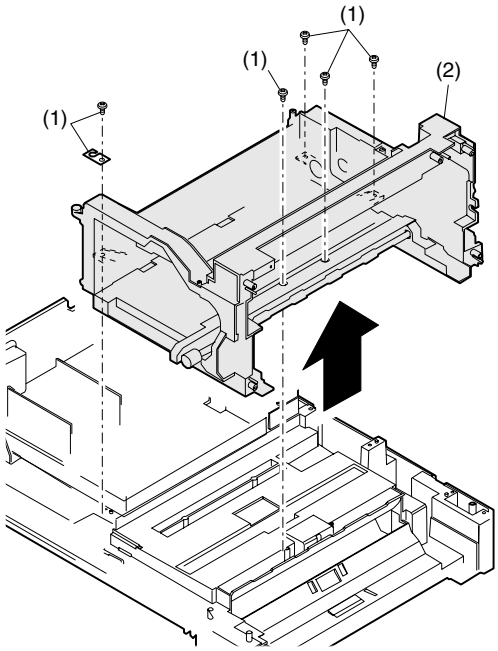
8. Tray paper feed section/Paper transport section

No.	Content
A	Interface frame unit
B	Drive unit
C	Solenoid (paper feed solenoid,, resist roller solenoid)
D	Resist roller clutch / Resist roller
E	Paper feed clutch/Paper feed roller (Semi-circular roller)

A.Intermittent frame unit

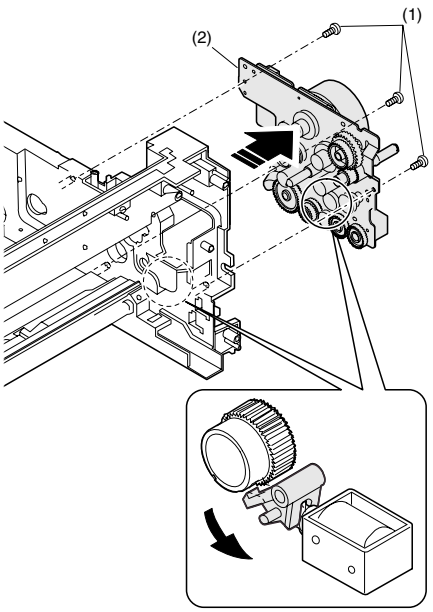


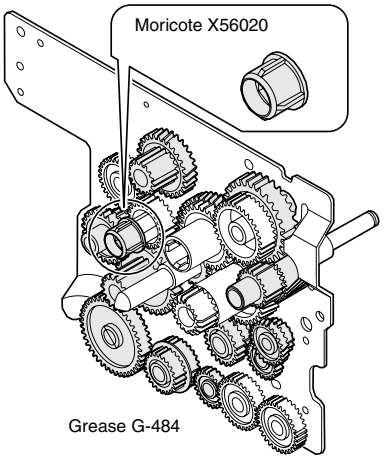
Assembly: Do not miss the door lock pawl.



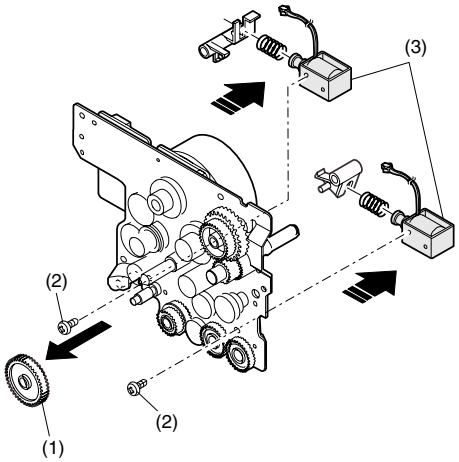
B.Drive unit

Assembly: Move down the clutch pawl as shown below, and avoid the clutch and install.

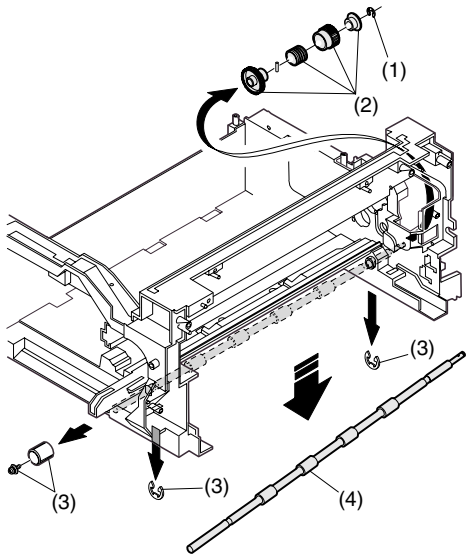




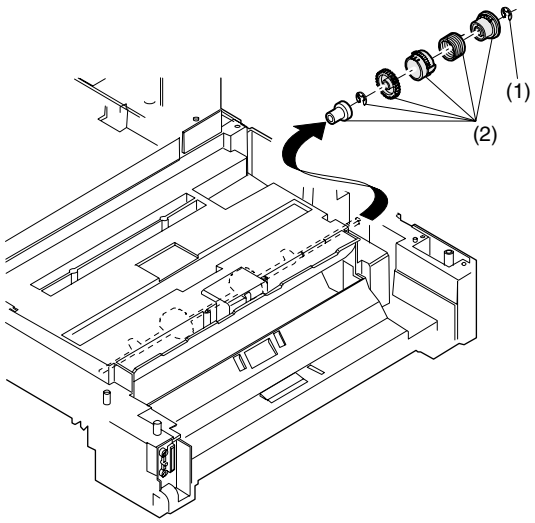
C. Solenoid (paper feed solenoid, resist roller solenoid)



D. Resist roller clutch/Resist roller



E. Paper feed clutch/Paper feed roller (Semi-circular roller)

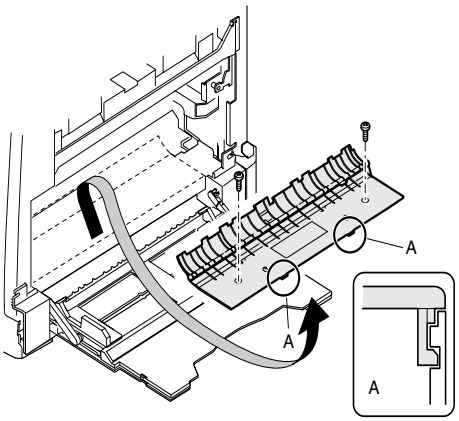


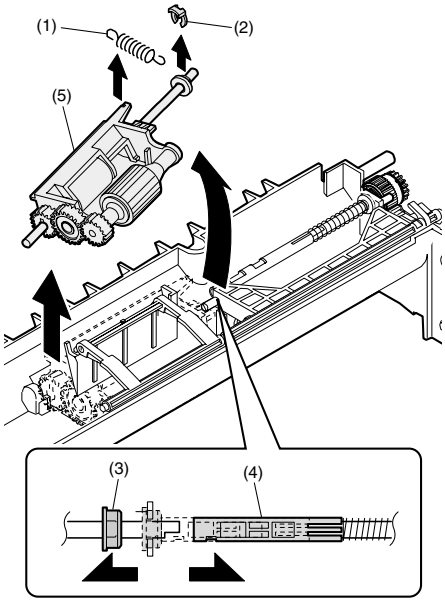
9.Manual multi paper feed section

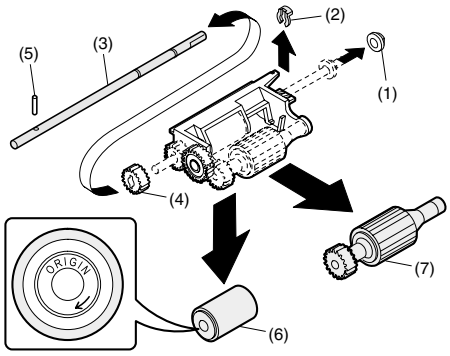
No.	Content
A	Manual transport roller/Manual paper feed roller
B	Manual multi paper feed
C	Manual feed solenoid
D	Manual transport clutch
E	Pressure plate unit
F	Manual paper feed clutch

A.Manual transport roller/Manual paper feed roller

Note: Push the lever at the right edge of the multi frame cover to the right upper side and remove it.

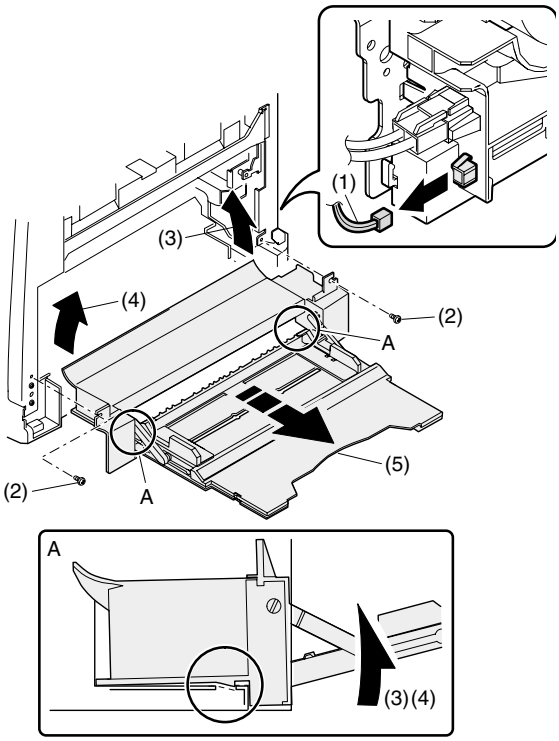




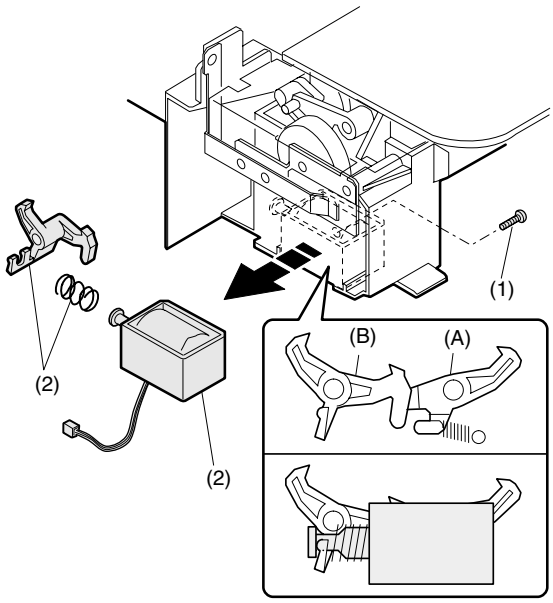


Installation: Be careful of the installing direction of the manual transport roller (6)

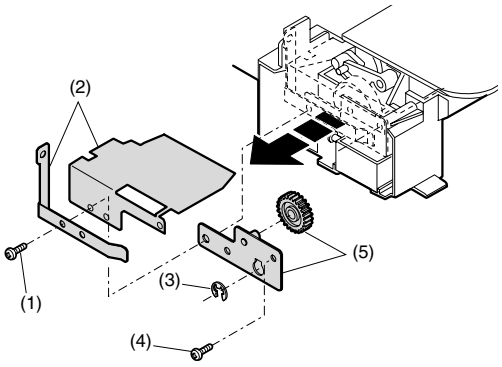
B. Manual multi paper feed

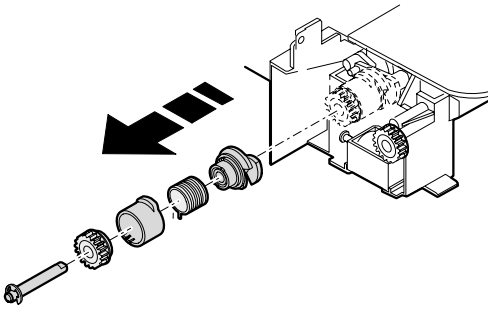


C. Manual feed solenoid

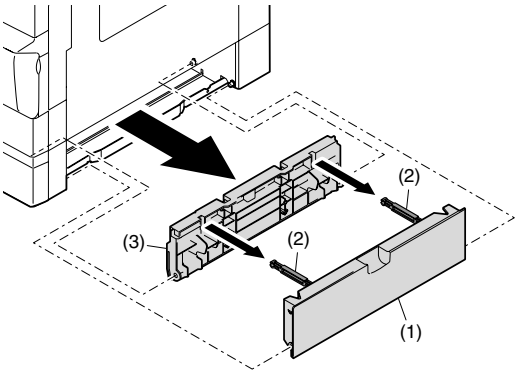


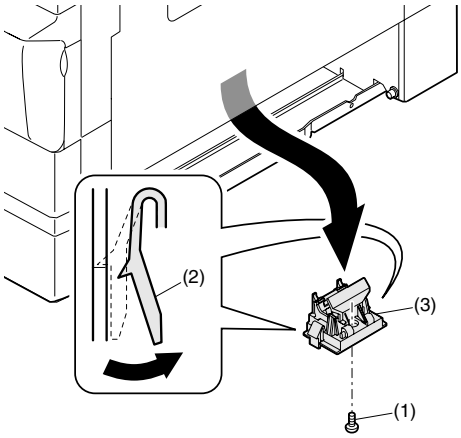
D. Manual transport clutch





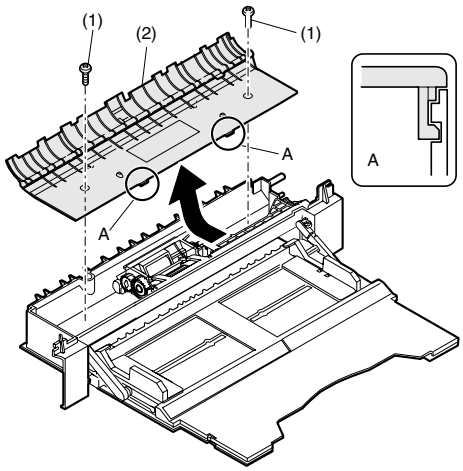
E.Pressure plate unit

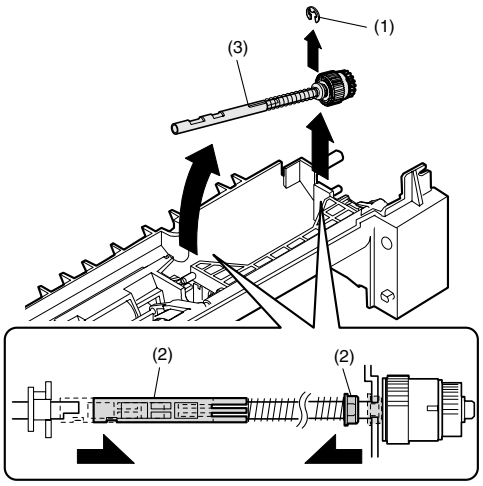


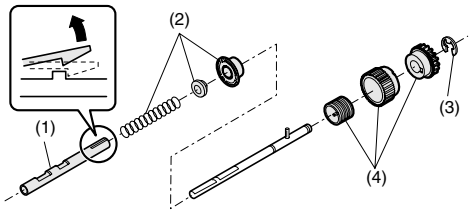


F. Manual paper feed clutch

Note: Push the lever at the right edge of the multi frame cover to the right upper side and remove it.



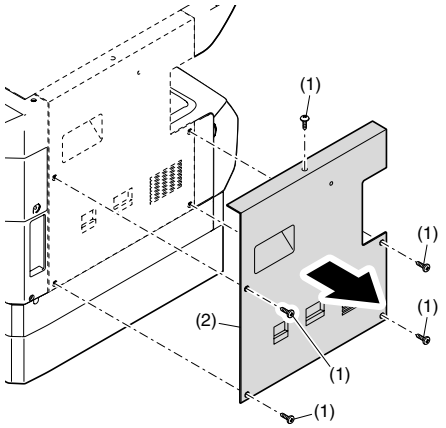


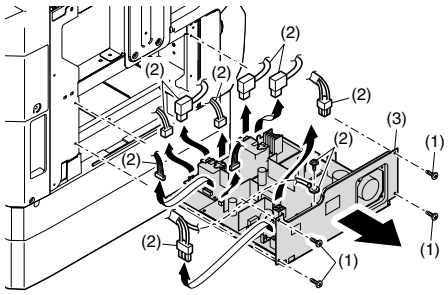


10.Power section

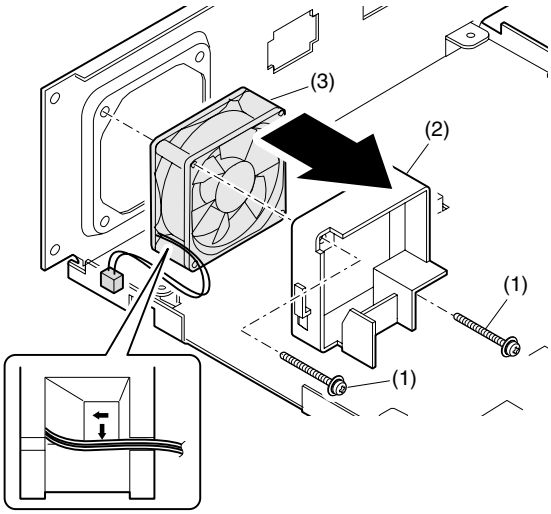
No.	Content
A	Power unit
B	Power fan
C	High voltage P.W.B.
D	Power P.W.B.
E	Power switch

A.Power unit

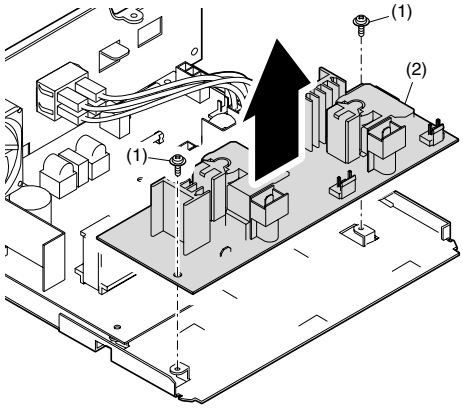




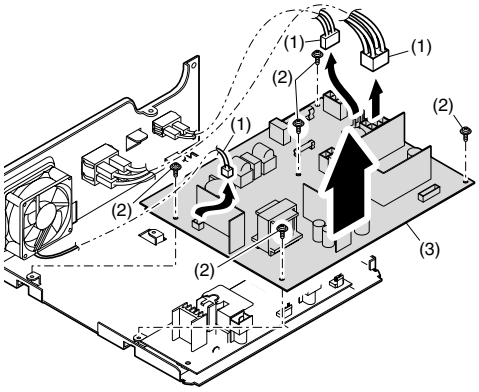
B. Power fan



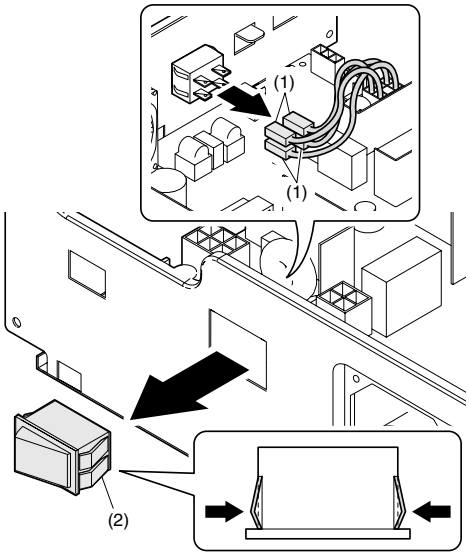
C. High voltage P.W.B.



D. Power P.W.B.



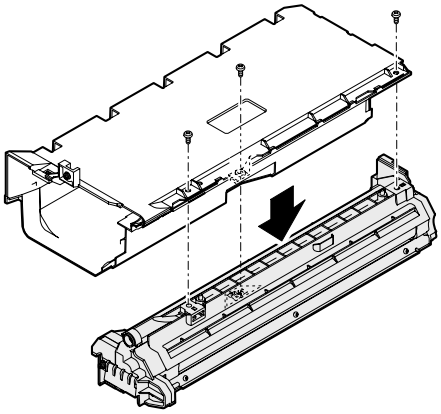
E. Power switch



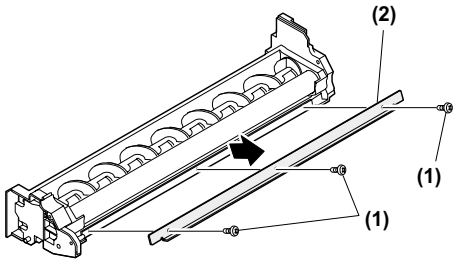
11.Developing section

No.	Contents
A	Developing box
B	Developing doctor
C	MG roller

A.Developing box

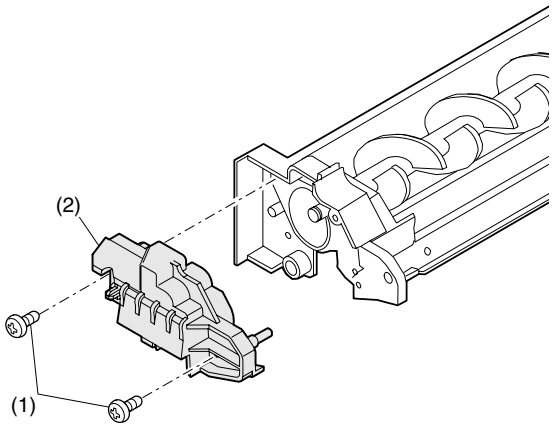


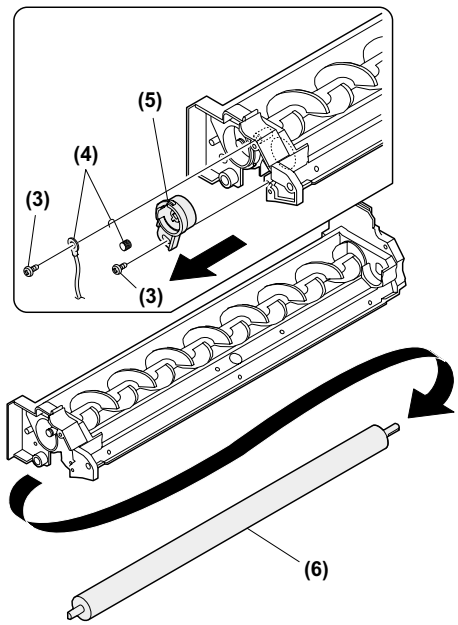
B.Developing doctor



Adjustment: Developing doctor gap adjustment

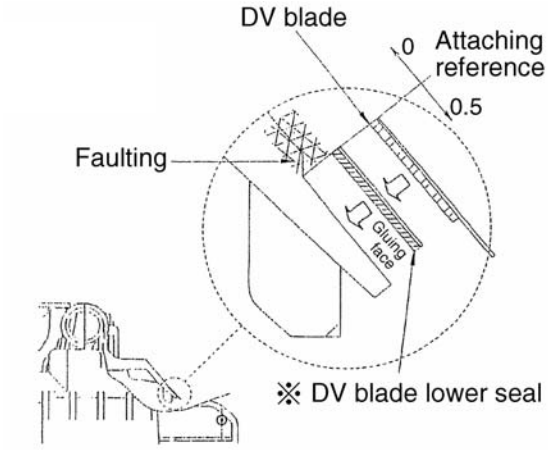
C.MG roller





Adjustment: MG roller main pole position adjustment

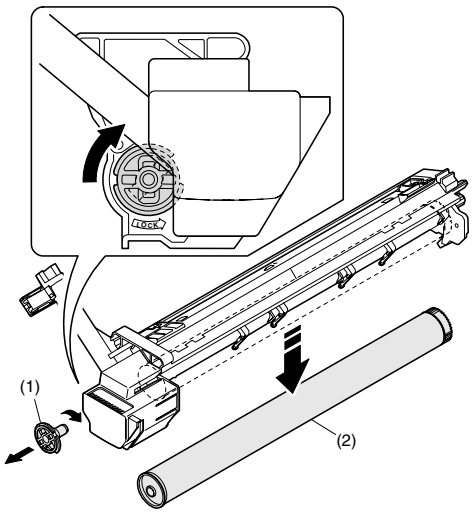
Note: Attach it to fit with the attachment reference when replacing the DV blade.



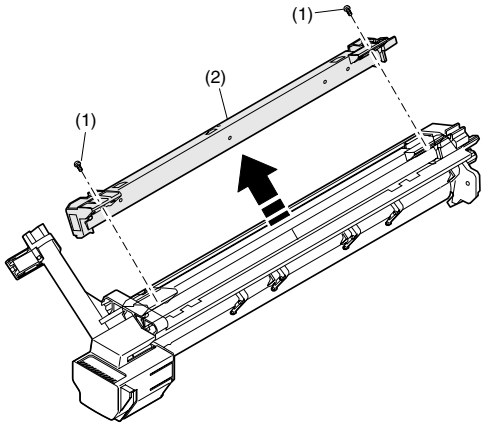
12.Process section

No.	Contents
A	Drum unit
B	Main charger unit
C	Cleaning blade

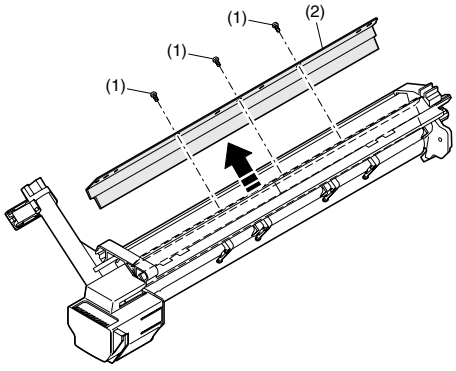
A.Drum unit



B. Main charger unit



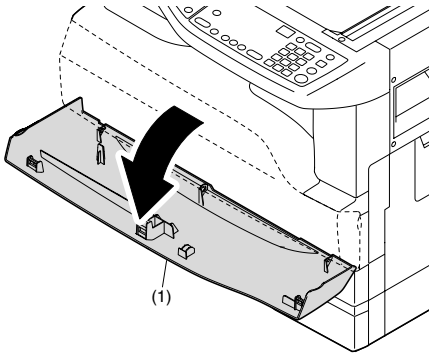
C.Cleaning blade

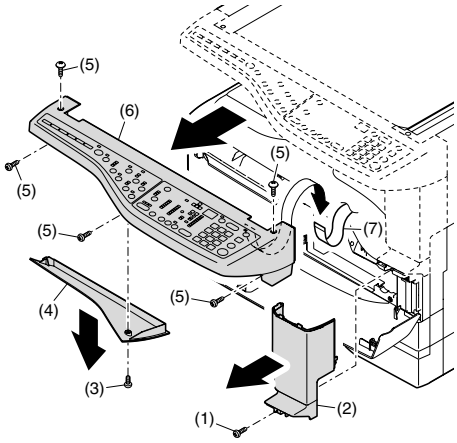


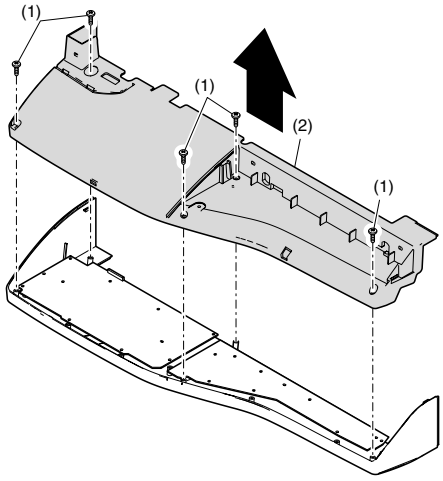
13.Others

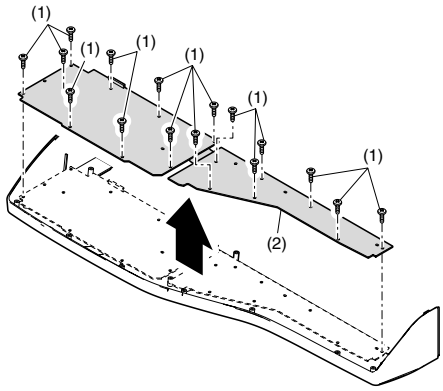
No.	Contents
A	Operation P.W.B.
B	Tray interface P.W.B.
C	2nd tray paper entry sensor / Paper empty sensor
D	2nd tray paper feed solenoid / Transport solenoid
E	2nd tray transport clutch
F	2nd tray transport roller
G	2nd tray paper feed clutch
H	2nd tray paper feed roller
I	Main motor
J	I/F P.W.B.
K	Paper entry sensor
L	Paper empty sensor
M	Paper feed roller

A. Operation P.W.B.

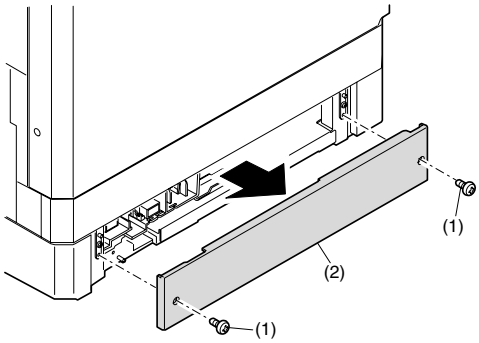


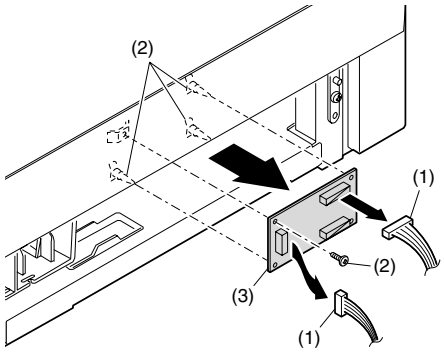




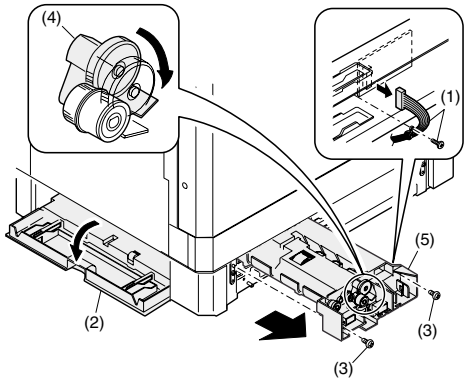


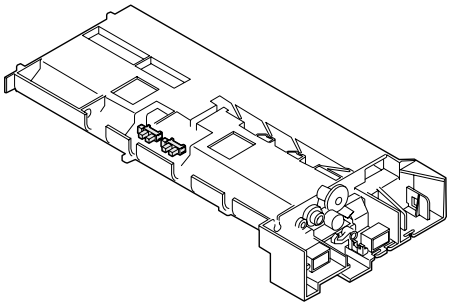
B. Tray interface P.W.B.



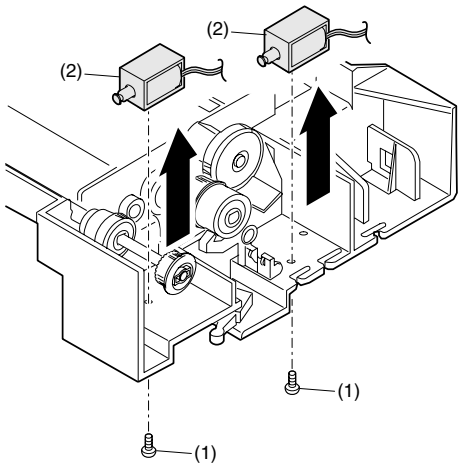


C. 2nd tray paper entry sensor / Paper empty sensor

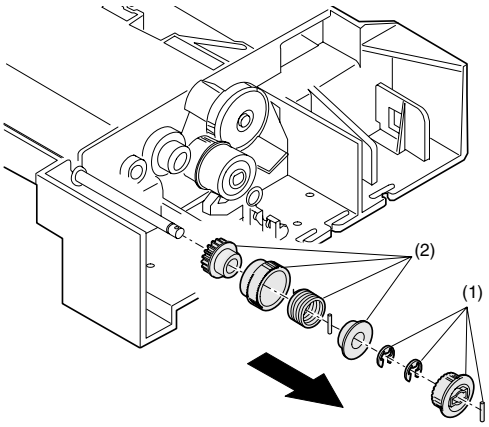




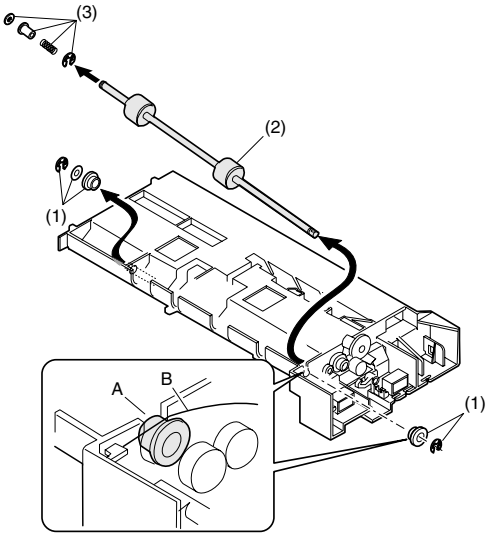
D. 2nd tray paper feed solenoid / Transport solenoid



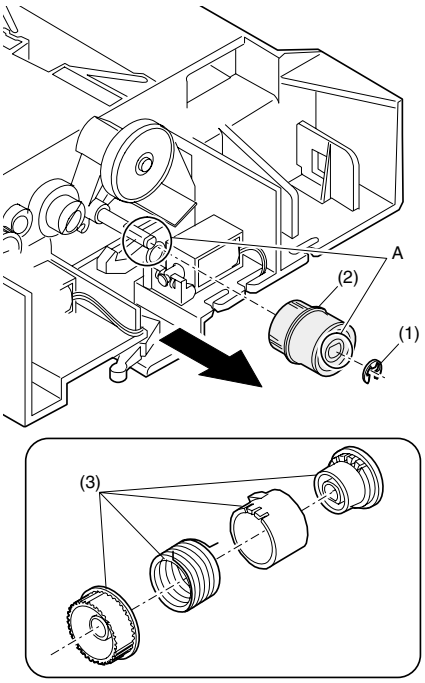
E.2nd tray transport clutch



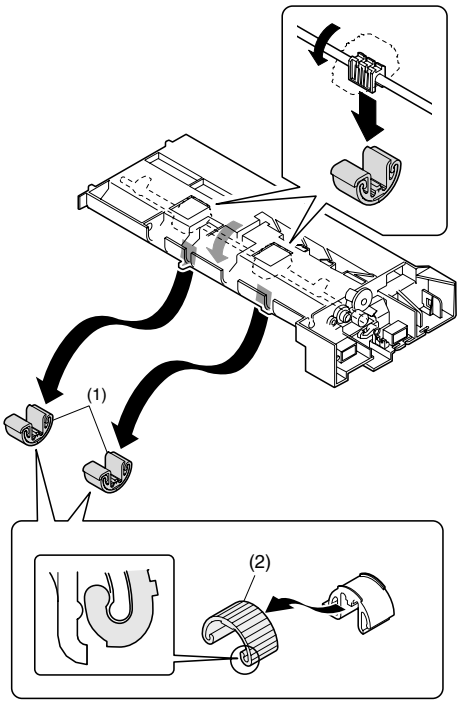
F. 2nd tray transport roller



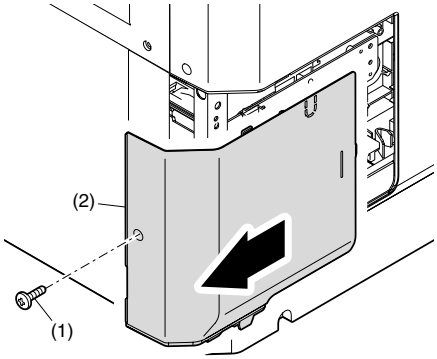
G. 2nd tray paper feed clutch

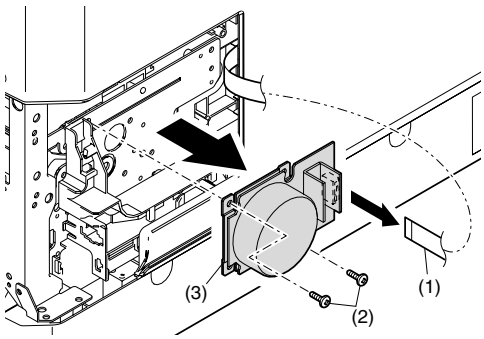


H. 2nd tray paper feed roller

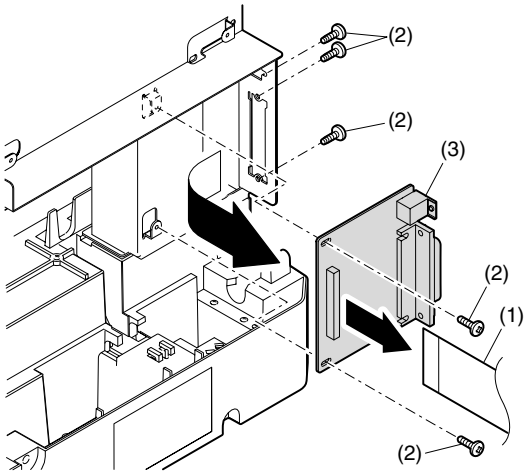


I. Main motor

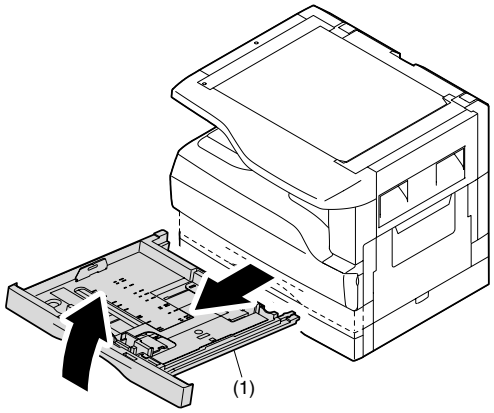


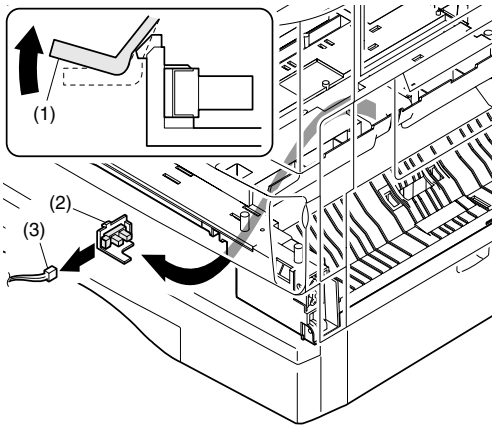


J. I/F P.W.B.

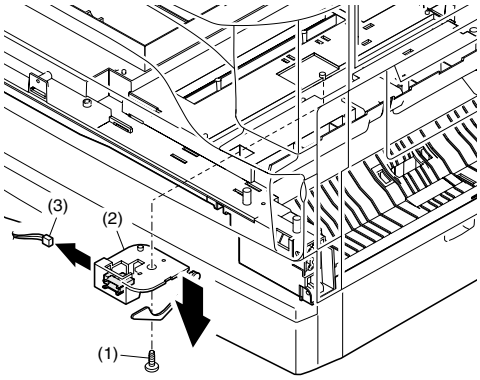


K. Paper entry sensor

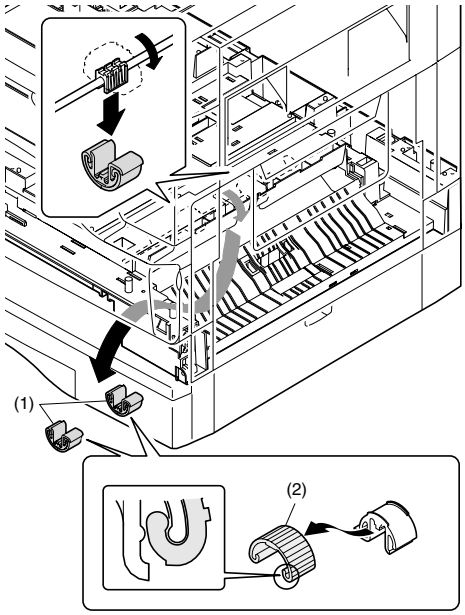




L. Paper empty sensor



M. Paper feed roller



* When removing the paper feed roller, operate the paper feed clutch with SIM 6-1, and keep the paper feed roller down as shown in the figure above for operation.

[12]FLASH ROM VERSION UP PROCEDURE

1.Preparation

Write the download data (the file with the extension dwl) to the main body of AR-M205/M160.

Necessary files for download

- Maintenance.exe (Maintenance software)
- ProcPegasus.mdl
- ProcPegasus.ini
- ProcPegasus.fmt
- Pegasus.inf
- Usbscan.sys
- Download file:***.dwl

<Note>

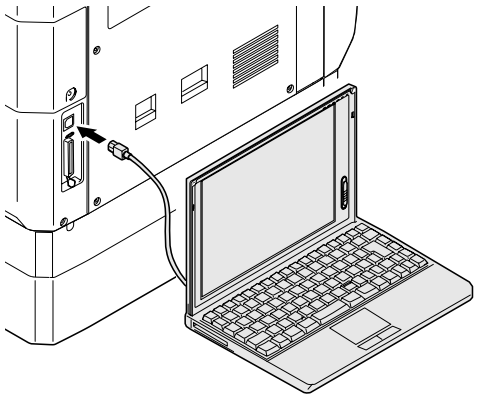
- The Download file(***.dwl) and the like that are to be downloaded should be copied, in advance, into folders that have a maintenance program.
- When creating a folder for a maintenance tool in the PC, be sure that no lengthy folder name is included in the path.

(Example)
Incorrect c:\Maintenance Download Tool
Correct c:\Maintenance\Downtool

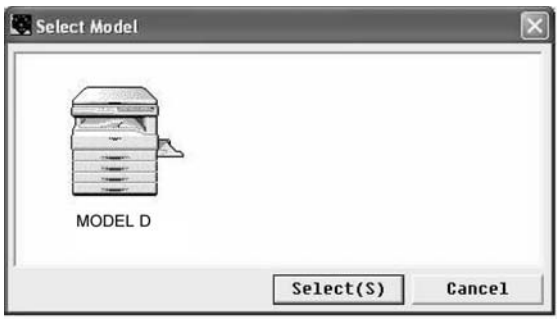
2.Download procedure

1) Main body side:
   Executable by performing the Service Simulation No. 49-01 (Flash Rom program-writing mode).
   (A word "d" appears on the operation panel to denote the download mode status.)

2) Connect the PC and the main body with the download cable (USB cable).
   (Be sure to use a USB cable for connection. USB2.0 of the AR-EB7 is not applicable.)



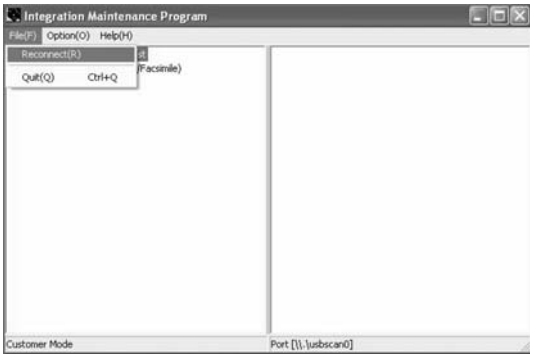
3) PC side:
   Boot the maintenance program. Select the model icon.



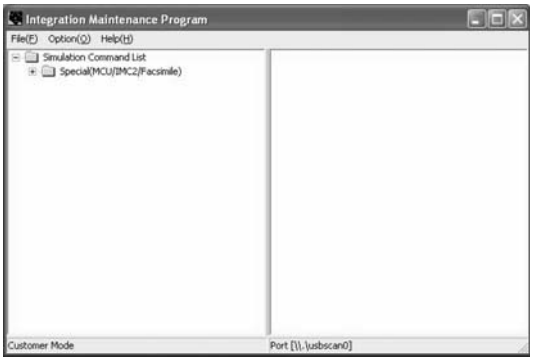
<Sample display>

4) PC side:
   Confirm that the "Simulation Command List" tree is displayed on the maintenance program.

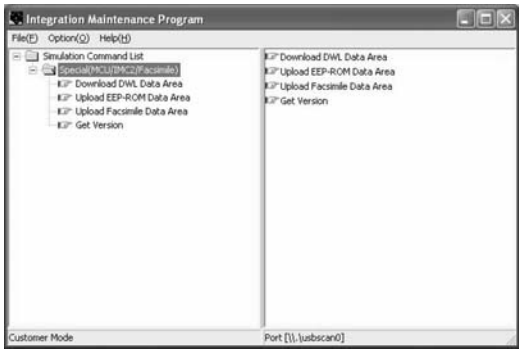
5) PC side:
   When the message "the main body has not got started running" is displayed on the lowest area of the figure below after the "maintenance program" is started up, select the "File" and then "Reconnect" in the menu bar.



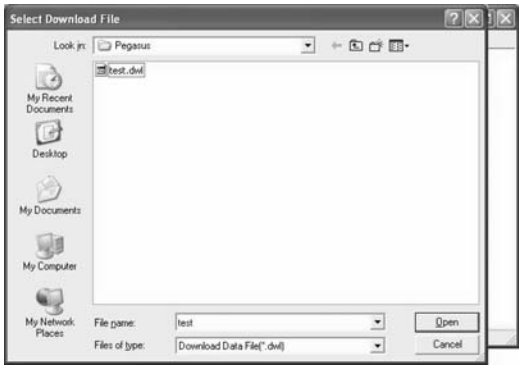
6) PC side:
   Confirm a tree is displayed under the "Special (MCU/IMC2/FAX)" on the maintenance program". (If no tree is displayed, confirm that the USB is connected and select the "Reconnect" (the above 5) again.)



7) PC side:
Double click "Special (MCU/MCU2/FAX)" in the main tree item to develop the sub tree items, and double click "DWL Download" in the sub tree items.

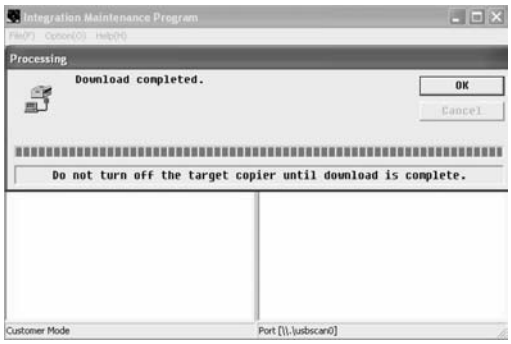


8) PC side:
Specify the download file (*.dwl).



9) PC side:
The download file is specified, download is automatically performed. The "Automatic paper selection" lamp and "Start" lamp will blink approximately 15 seconds after the download file is specified.

10) PC side:
When the message below is displayed, download is completed.
Completion message: DOWNLOAD COMPLETED



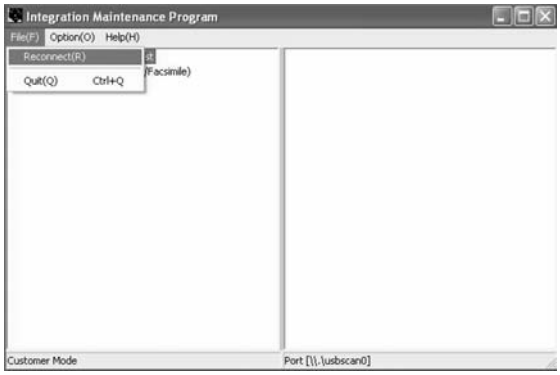
NOTE (Important):
•Be sure that the power is not turned off and the USB cable is not removed until the word "OFF" appears.

11) Main body side:
Wait until the word "OFF" appears on the operation panel.
The appearance of "OFF" indicates the completion of the download (writing into ROM).
Turn the power off.

12) After-process: Terminate the maintenance program, and turn on the power of the main body.

After the download (data transmission) has been completed, exit the software program. The USB cable can be removed at this point.

NOTE:
•For making a second connection with another machine, select the "File" and "Reconnect" in the menu bar on the maintenance program at the time of the USB being re-connected. Repeat the previous procedures from the above 5).



*** Forbidden actions while downloading (Important)**

Failure in the download concerned may not allow you to conduct the subsequent download procedures. Added care should be taken to avoid having the situation below arise while downloading.
•Switching off the main body of AR-M205/M160.
•Disconnecting the download cable (USB cable).

*** If the above inhibit item occurs during downloading:**

Turn OFF and ON the power.
1) If "d" (which means downloading) is displayed on the operation panel LED of the machine, perform downloading again.
2) If "d" (which means downloading) is not displayed on the operation panel LED of the machine, turn OFF the power, and press and hold the zoom (%) key and the "Department counter end" key and turn ON the power. If, then, "d" (which means downloading) is displayed on the operation panel LED of the machine, perform downloading again.
If "d" is still not displayed, the MCU must be replaced.

3. Installation procedure

A. USB joint maintenance program installation

The driver is installed by plug and play.

B. Installation procedure on Windows XP

1) Machine side:
Executable by performing the Service Simulation No. 49-01 (Flash Rom program-writing mode).
(A word "d" appears on the operation panel to denote the download mode status.)

2) Connect the machine and the PC with a USB cable.
(Be sure to use a USB cable for connection. USB2.0 of the AR-EB7 is not applicable.)

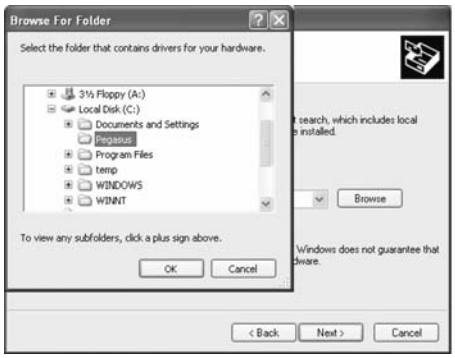
3) Check that the following display is shown.
Select "Install from a list or the specific location" and press the NEXT button.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
DOWNLOAD
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

4) Select "Include this location in the serch". If the retrieval area does not include the folder which includes the maintenance tool driver (Pegasus.inf), select "Browse"
If the folder path is properly shown, press the NEXT button to go to procedure 7).

Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\ENGLISH\WINXP\PRO\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

5) Select the folder which includes the maintenance tool driver (Pegasus.inf), and press the OK button.
(When the driver is included in the "C:\Pegasus" folder:)



6) Check that the path to the folder which includes the maintenance tool driver (Pegasus.inf) is shown, and press the NEXT button.

Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
C:\Pegasus
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

7)) Check that the following display is shown. Press the Continue Anyway button.

Hardware Installation
The software you are installing for this hardware:
Maintenance Tool Version 4.00 Generic USB Driver
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

8) When installation is completed, the following display is shown.
Press the Finish button.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Maintenance Tool Version 4.00 Generic USB Driver
Click Finish to close the wizard.
< Back
Finish
Cancel

The installation procedure (on Windows XP) is completed with the above operation.

C. Installation procedure on Windows 2000

1) Machine side:
Executable by performing the Service Simulation No. 49-01 (Flash Rom program-writing mode).
(A word "d" appears on the operation panel to denote the download mode status.)

2) Connect the machine and the PC with a USB cable.
(Be sure to use a USB cable for connection. USB2.0 of the AR-EB7 is not applicable.)

3) Check that the new hardware search wizard is shown. Press the NEXT button.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

4) Select "Serch for a suitable driver for my device" and press the NEXT button.

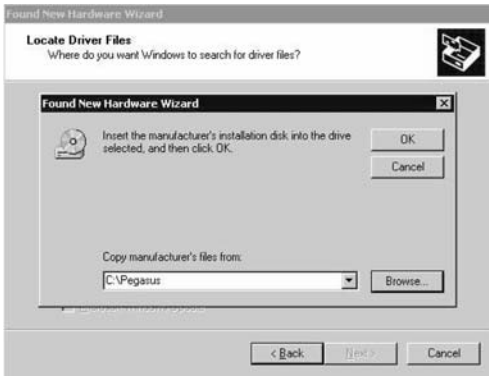
Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
DOWNLOAD
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

5) Select "Specify a location" and press the NEXT button.

Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
DOWNLOAD
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

6) Press the "Browse" button. Specify the folder which includes the maintenance tool driver (Pegasus.inf)

7) Specify the folder which includes the maintenance tool driver (Pegasus.inf), and press the OPEN button.
Check that the path to the folder which includes the maintenance tool driver (Pegasus.inf) is properly displayed, and press the OK button.
(When the maintenance tool driver is included in the folder of "D:\Pegasus")



8) Press the NEXT button, and installation is started.

Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
DOWNLOAD
Windows found a driver for this device. To install the driver Windows found, click Next.
c:\pegasus\pegasus.inf
< Back
Next >
Cancel

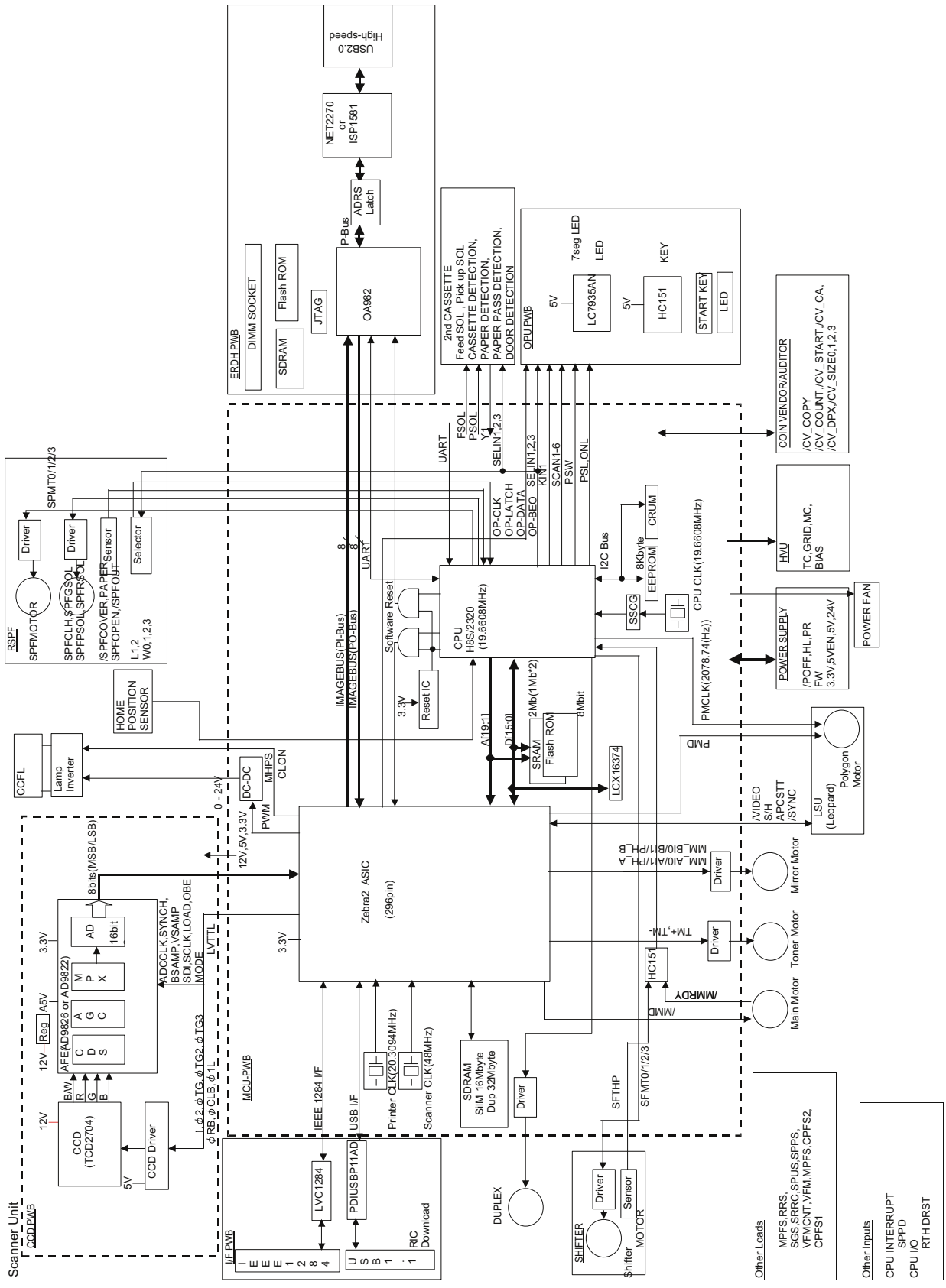
10) When installation is completed, the following display is shown.
Press the Finish button.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
Maintenance Tool Version 4.00 Generic USB Driver
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

The installation procedure of the joint maintenance program on Windows 2000 is completed with the above operation.

[13] ELECTRICAL SECTION

1.Block diagram



2.Circuit descriptions

A. Main PWB (MCU)

(1) Operation circuit

a. General

The operation circuit is composed of the key matrix circuit and the display matrix circuit.

b. Key matrix circuit

Select signals SELIN 1 - 3 are sent from the CPU of the MCU to the selector in the operation circuit.
The signals detecting OFF/ON of the key are sent to the CPU as KIN 1 - 2.

c. Display circuit

The display is controlled by sending the data signal from the CPU of the MCU, the clock signals, and the latch signals from the ASIC to the LED driver in the operation circuit.

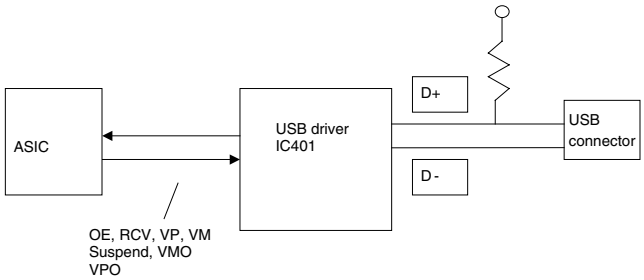
(2) I/F circuit

a. General

The I/F circuit is composed of the USB driver and the IEEE1284 driver, and performs hard interface with the ASIC (MCU PWB).

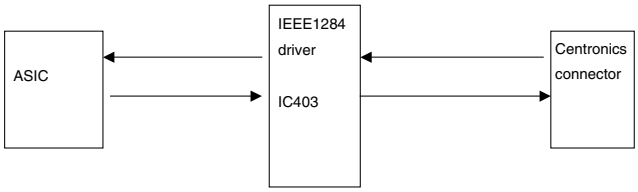
b. USB circuit

With the USB driver, the differential signals (analog) of USB are converted into digital signal, which are sent to the ASIC. In the reverse procedure, interface between the ASIC (engine) and the host is performed.



c. IEEE1284 circuit

The IEEE1284 driver is used to perform interface between the ASIC (engine) and the host.



(3) Carriage unit

a. General

The carriage unit is provided with the CCD PWB, the inverter PWB, and the lamps. It scans documents and transfers AD-converted image data to the ASIC.

b. CCD PWB

The CCD on the CCD PWB employs the color image sensor uPD8861 of 5400 pixels x 3 lines, and scans documents in the main scanning direction in the resolution of 600dpi/US letter size.
Image data scanned by the CCD are inputted to the AFE (AD9826), and subject to CDS, amplification, and AD-conversion. Then digital data are outputted to the MCU PWB and to the ASIC, which performs image process of the digital data.

c. Lamp inverter PWB

The transformer is controlled by the lamp control signal from the MCU PWB. The transformer output controls lighting of the cool cathode ray tube.

B. DC power circuit

The DC power circuit directly rectifies the AC power and performs switching-conversion with the DC/DC converter circuit, and rectifies and smoothes again to generate a DC voltage.
The constant voltage control circuit is of +5VEN. +24V are of the non-control system by winding from the +5VEN winding. As shown in fig (1), +24V, and +5V are provided with the ON/OFF function by external signals. +3.3V is outputted from +5VEN to the regulator IC. Refer to the block diagram, fig (1).

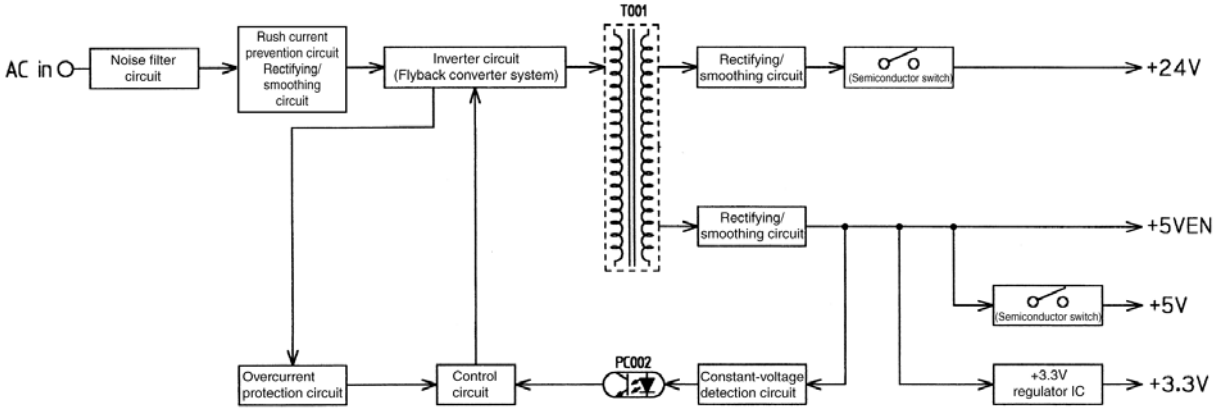


fig (1) Block diagram

(1) Noise filter circuit

The filter circuit is composed of L and C. It reduces common noises and normal mode noises generated from the AC line.
The common noise means that generated in each line for GND. Its noise component is delivered through C001, C003, and C007 to GND.
The normal noise means that overlapped in the AC line or the output line. It is attenuated by C002, L001, C006, and L002. Refer to fig (2).

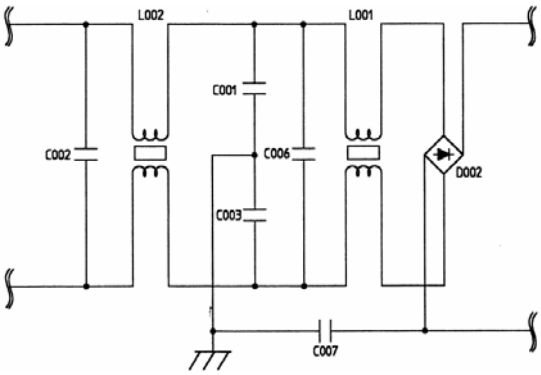


fig (2) Noise filter circuit

(2) Rush current prevention circuit and rectifying/ smoothing circuit

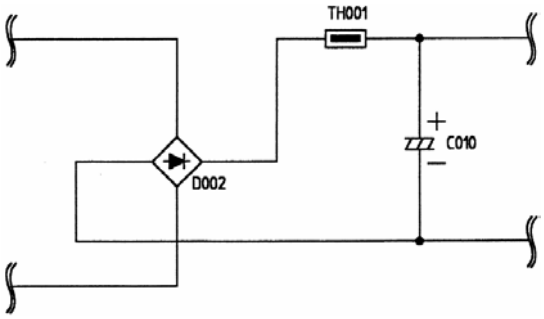


fig (3) Rush current prevention, rectifying/smoothing circuit

fig (3) Rush current prevention, rectifying/smoothing circuit Since the AC power is directly rectified, if there were not this rush current prevention resistor (TH001), an extremely large rush current would flow due to a charging current flowing through the smoothing capacitor C010 when turning on the power.
To prevent against this, the rush current prevention resistor TH001 is provided between the rectifying diode D002 and the smoothing diode C010, suppressing a rush current.
The rectifying/smoothing circuit rectifies a 50/60Hz AC voltage with the rectifying circuit, and smoothes it with the smoothing capacitor C010.

(3) Inverter and control circuit (Flyback converter system)

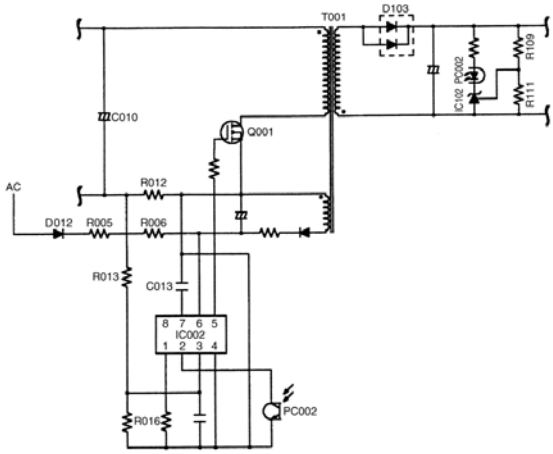


fig (4) Inverter and control circuit

This circuit is one-stone separate excitation DC-DC converter called flyback converter, as shown in fig (4).
When an electromotive voltage of IC is applied through D012, R005, and R006 to IC002, IC002 oscillates to conduct Q001.
As a result, a voltage is applied to the primary winding of the converter transformer (T001) and at the same time a voltage is generated in the driving winding of IC002 to operate IC002. Then IC002 turns ON/OFF Q001 at the frequency of about 70KHz determined by R016.
Under the ON state, the voltage in the secondary winding is reversed to the diode D103 and no current flows through the secondary winding of T001.
Under the OFF state, the current flowing through the primary winding is in the same direction as the primary winding, conducting D103 and transmitting energy to the secondary winding. Refer to fig (4).

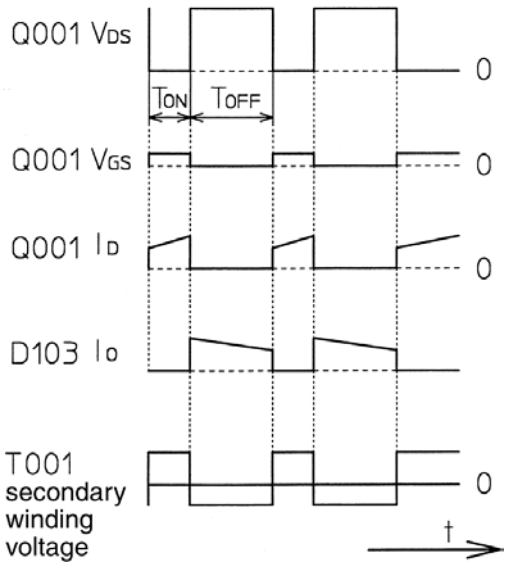


fig (5) Operation waveform of the flyback converter

The control circuit is subject to negative feedback from the secondary side as shown in fig (4). A photo coupler (PC002) is employed to insulate between the primary side and the secondary side to feed back the control signal to the primary side.
When the output voltage is increased by energy transmission from T001, the voltage detected by R109 and R111 is compared with the reference voltage of IC102. When it exceeds the reference voltage, the current flowing through IC102 (that is, the photo diode current of PC002) is increased and transmitted to the primary side. Then the potential at the feedback pin (2 pin) of IC102 is decreased to control Q001. Therefore, the change in the output voltage on the secondary side is passed through IC102 and PC002 to control Q001, stabilizing the output voltage.

(4) Overcurrent protection circuit (Primary side)

The inverter circuit of the primary side is connected with the current detection resistor R012. When an overcurrent occurs in the secondary side, the current flowing through the primary side inverter Q001 is increased. The current is detected by R012, and passed through R013 to IC002 overcurrent restricting pin (3 pin) to turn OFF Q002, shutting off all power. To resupply the power, turn off and on the power. Refer to fig (4).

(5) Rectifying/smoothing circuit (+5V)

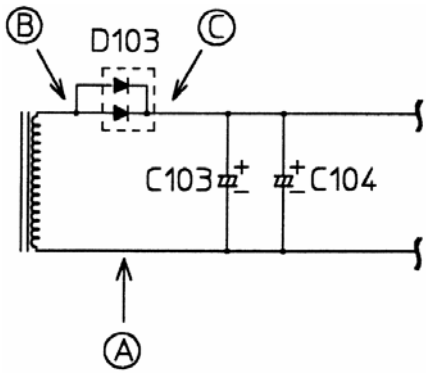


fig (6) Rectifying/smoothing circuit

The high frequency pulse generated by the inverter circuit is decreased by the converter transformer, rectified by the high frequency diode D103, and smoothed by C103 and C104.

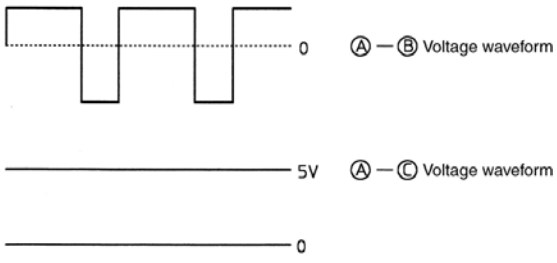
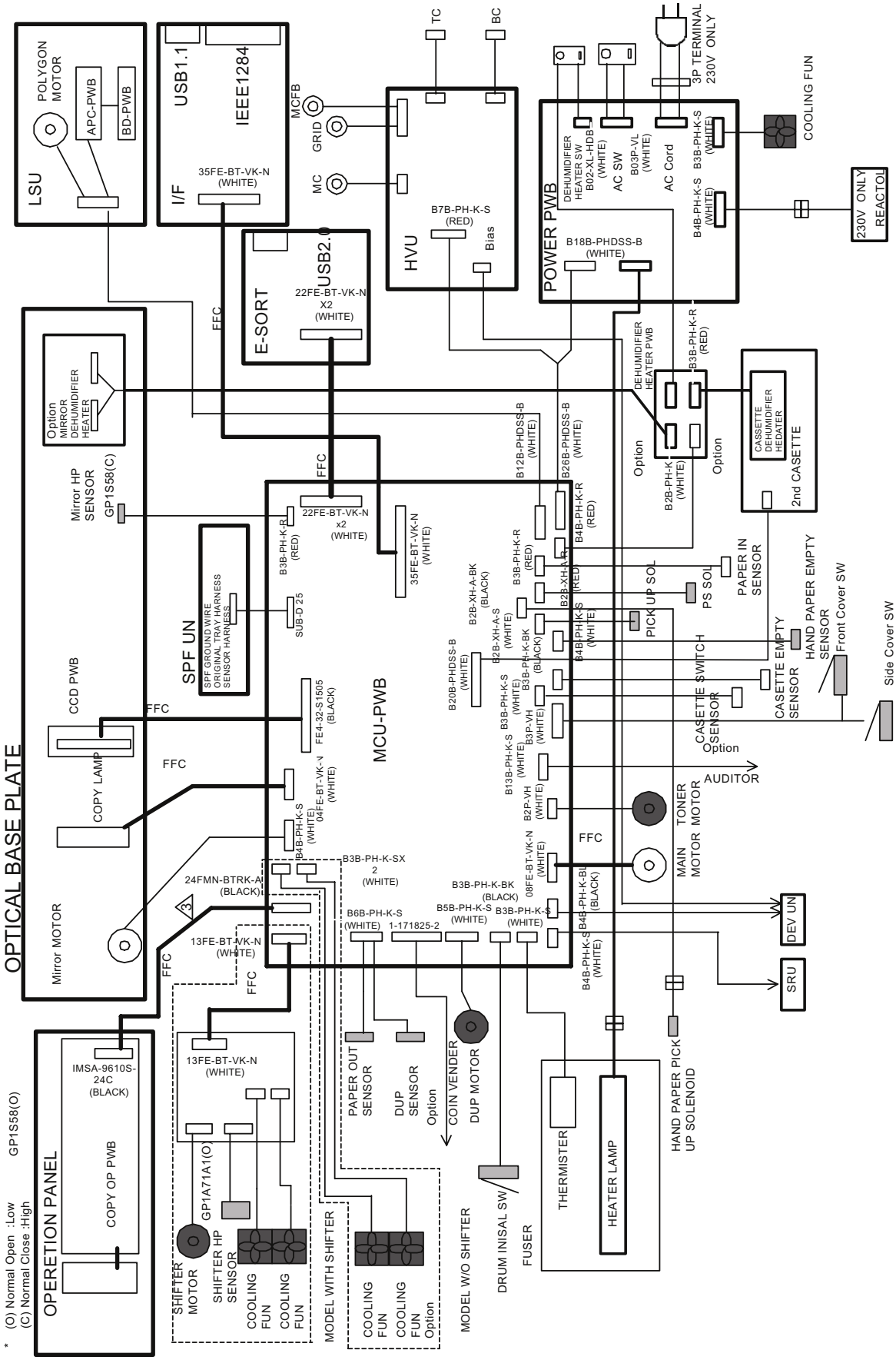


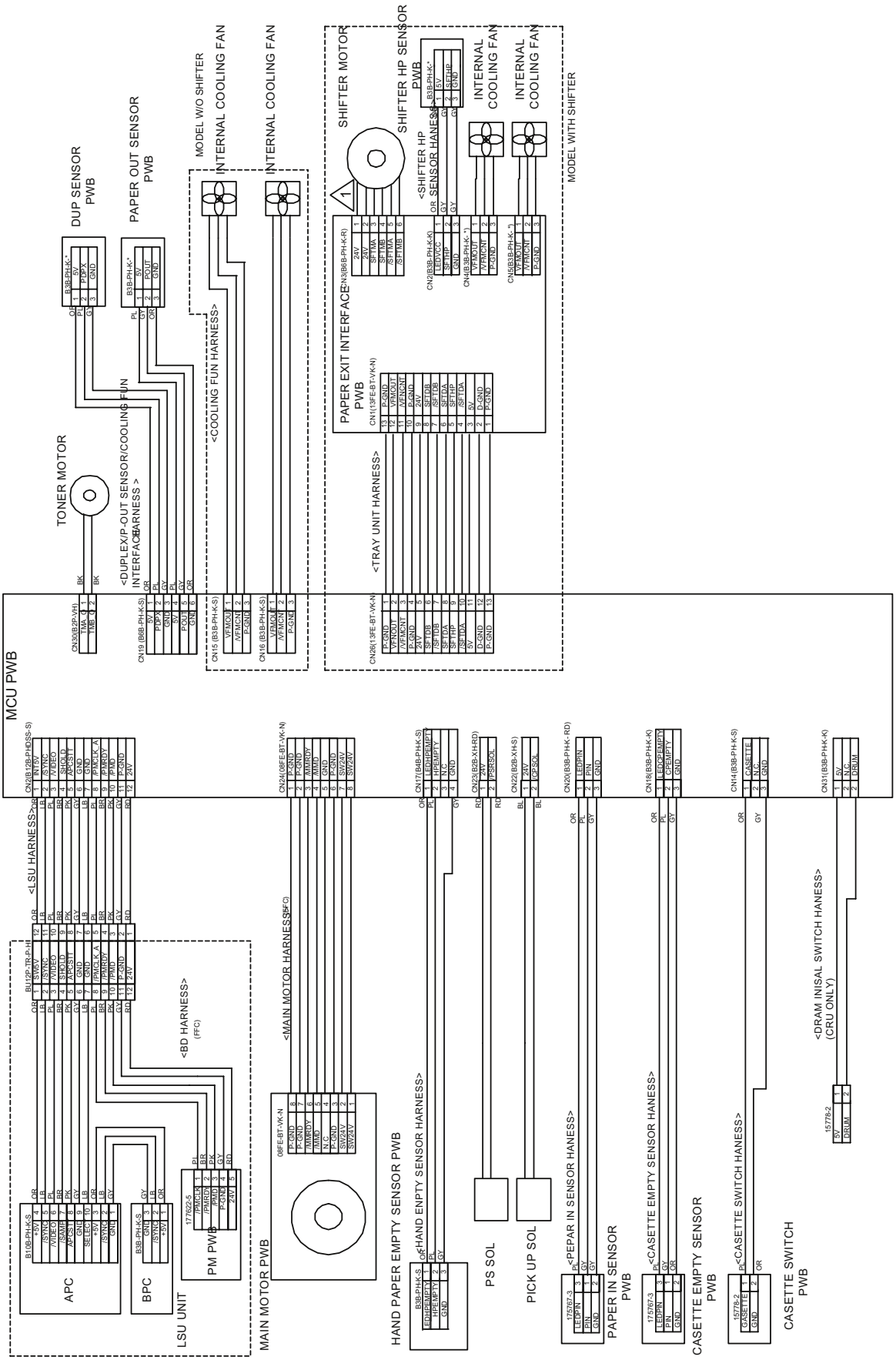
fig (7) +5V rectifying/smoothing circuit voltage waveform

3.Actual wiring diagram

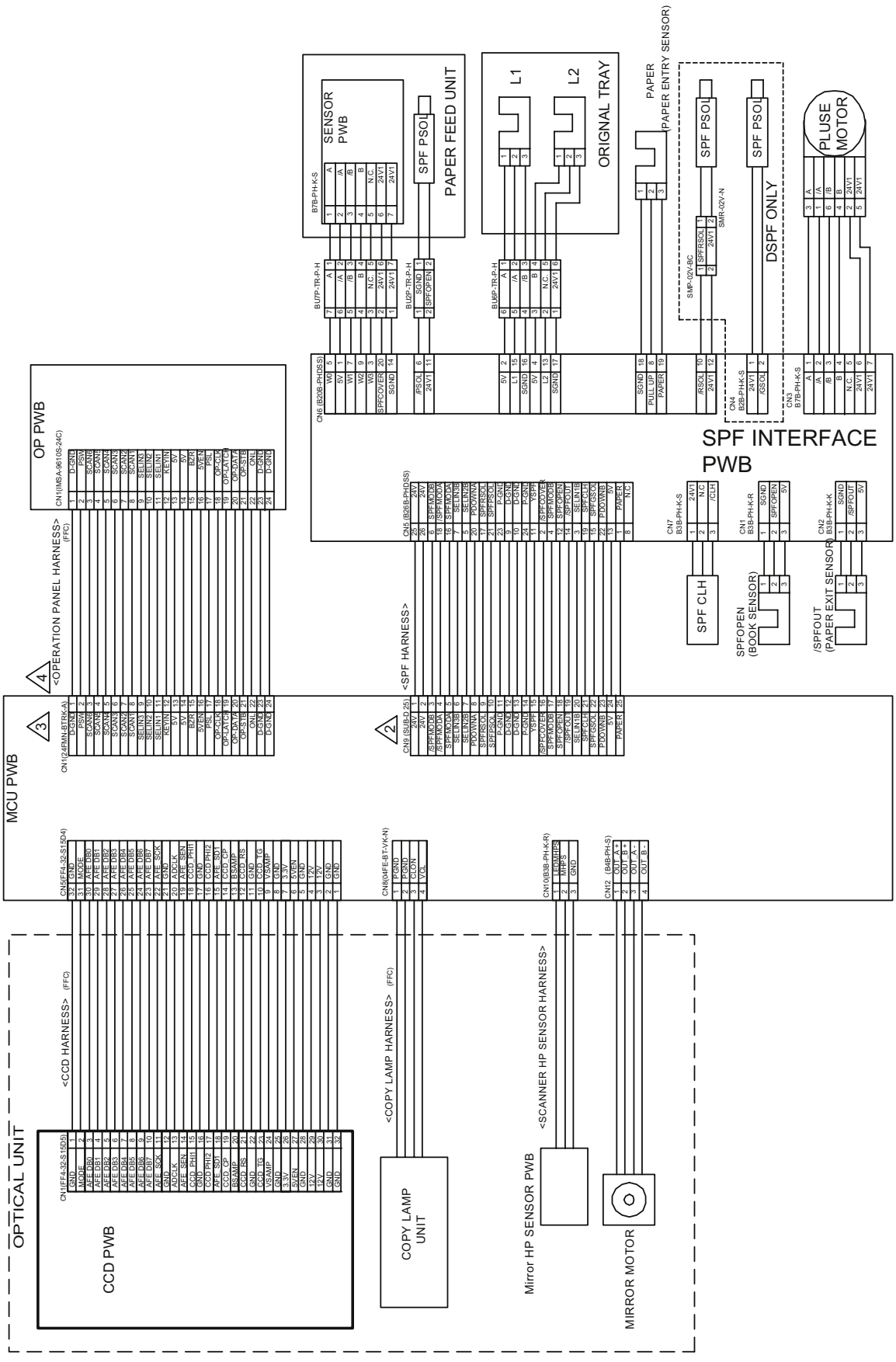
ACTUAL WIRING DIAGRAM 1/7



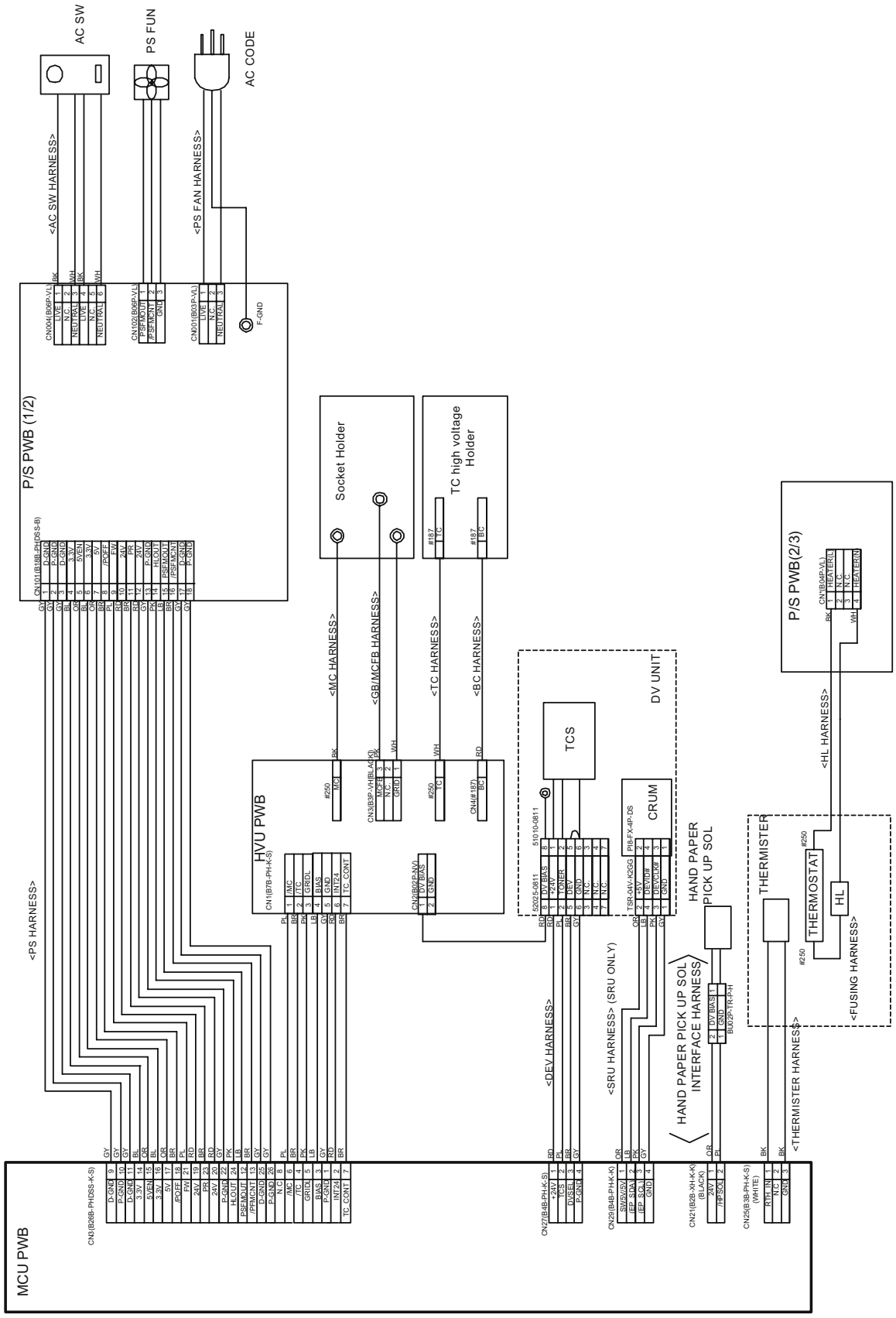
ACTUAL WIRING DIAGRAM 2/7



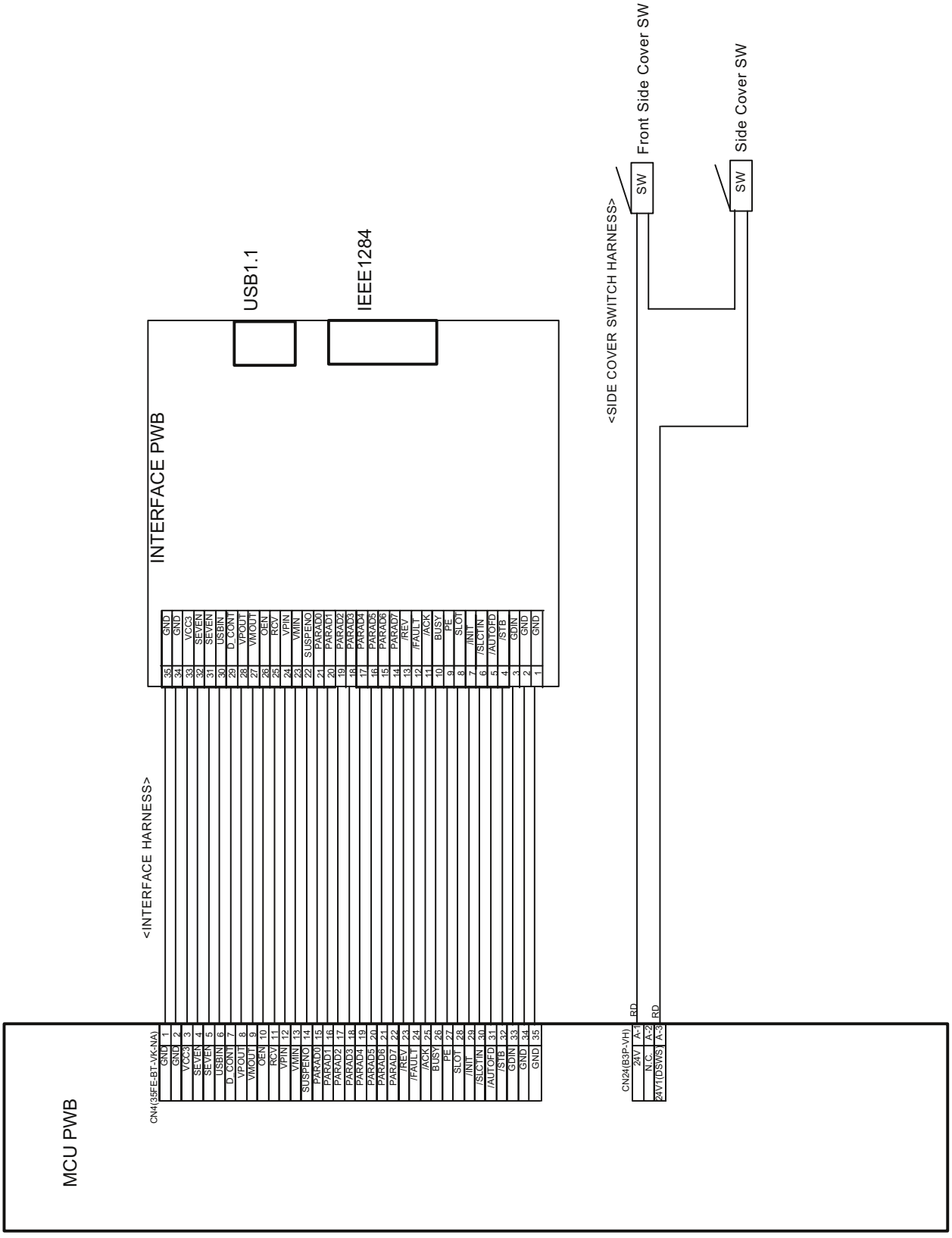
ACTUAL WIRING DIAGRAM 3/7



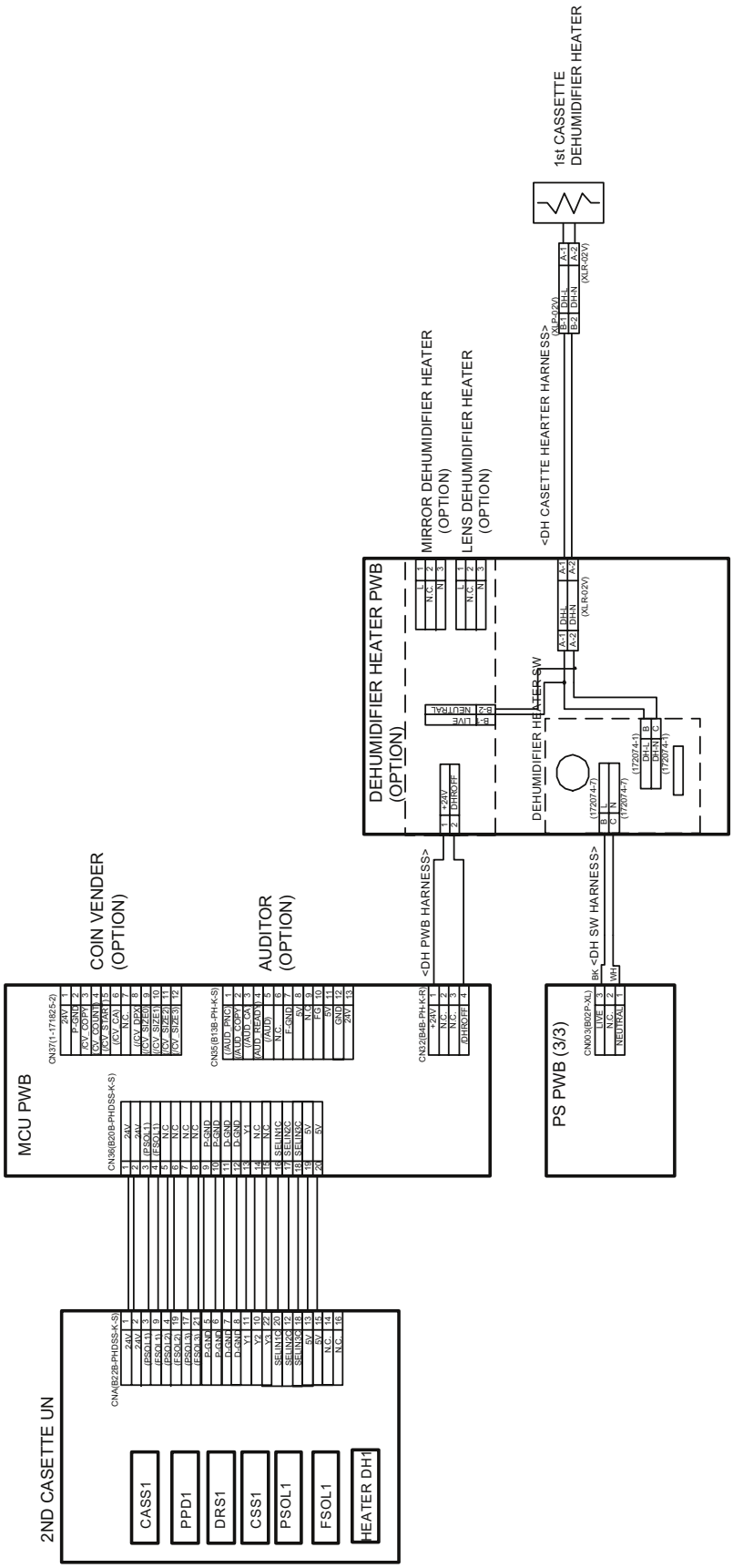
ACTUAL WIRING DIAGRAM 4/7



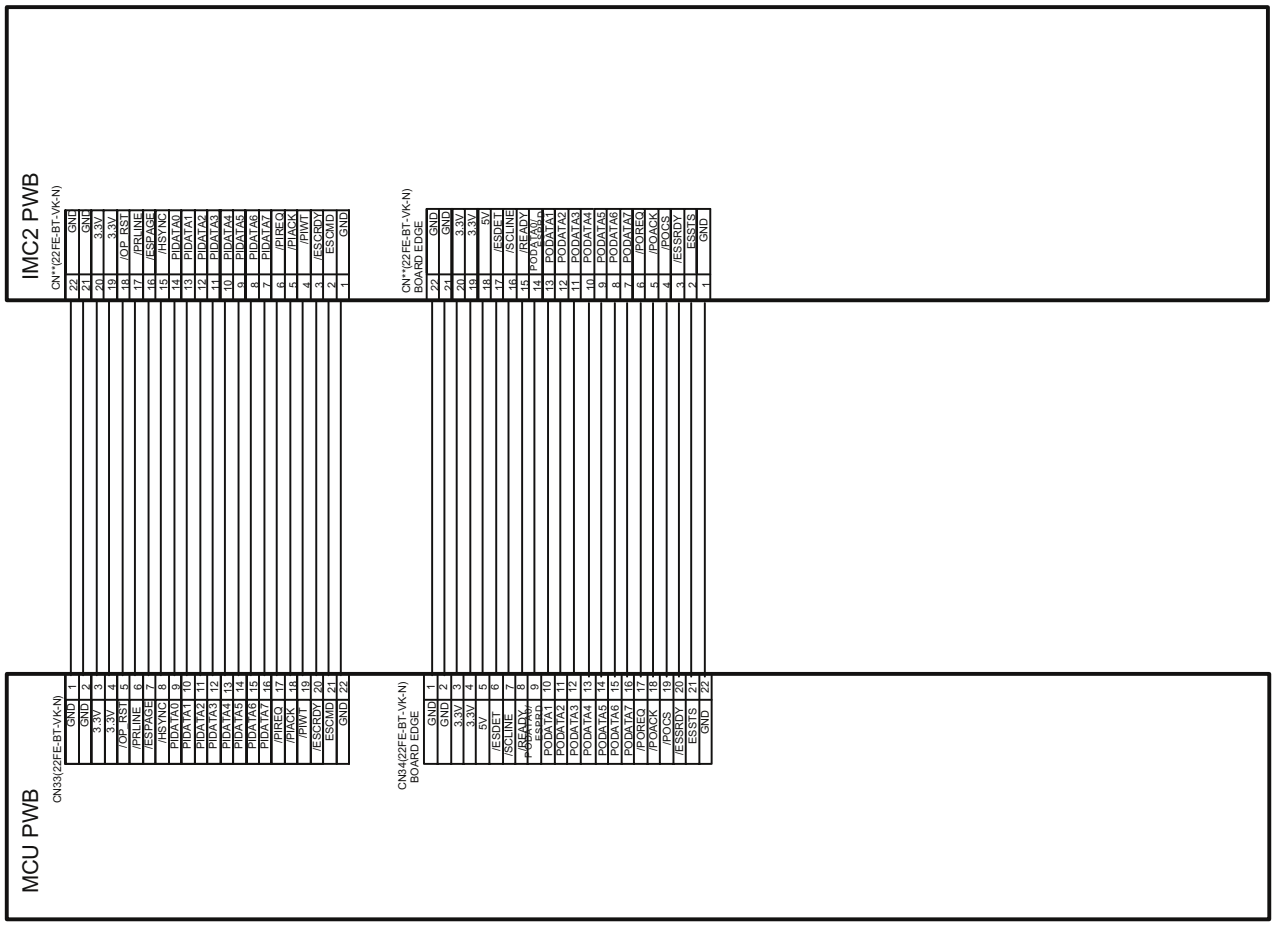
ACTUAL WIRING DIAGRAM 5/7



ACTUAL WIRING DIAGRAM 6/7



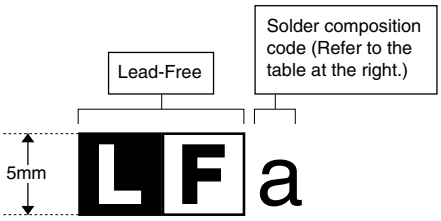
ACTUAL WIRING DIAGRAM 7/7



LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder.
The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi Sn-Ag-Bi-Cu	b
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P Bi-Sn-Ag	p

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.
Never use conventional lead solder thread, which may cause a breakdown or an accident.
Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommendable.

(2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.
Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.
If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.
If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.